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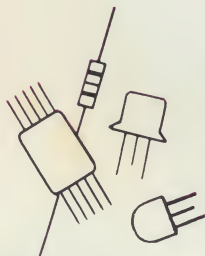
*your semiconductor specialist*

# 1968

## Precision Electronic Components Catalog



# MALLORY



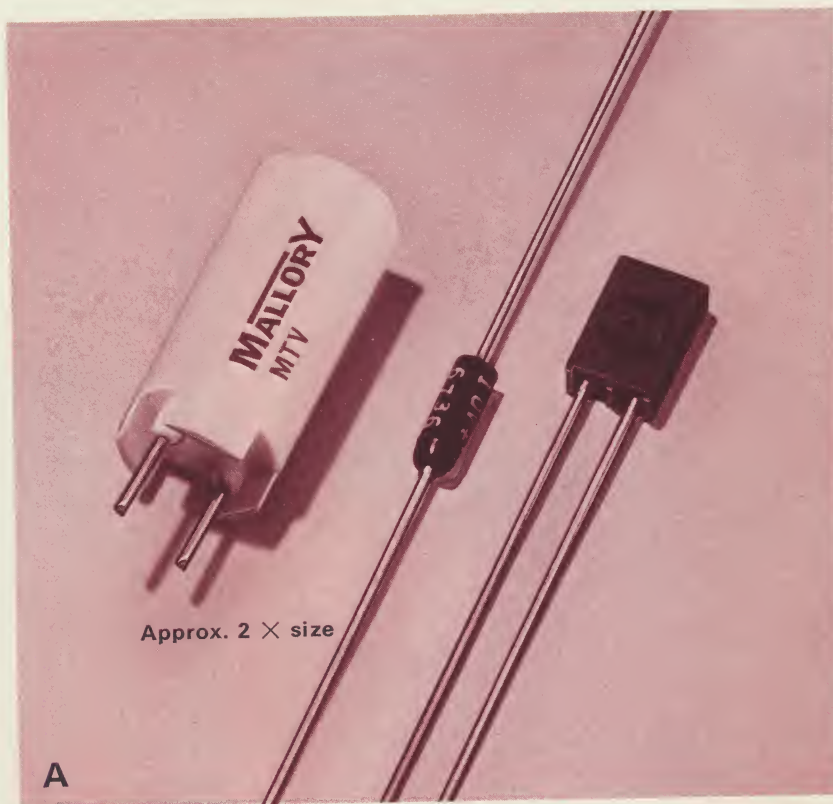
# SUMMIT

DISTRIBUTORS INC.  
TRANSISTOR SPECIALISTS

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# NEW PRODUCTS FOR 1968



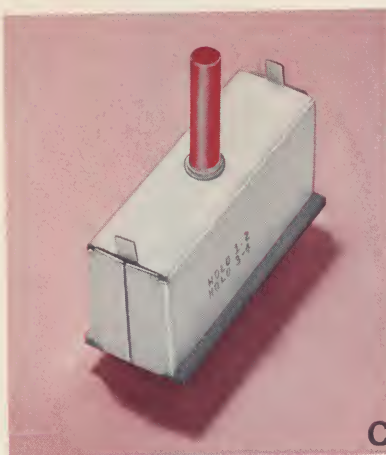
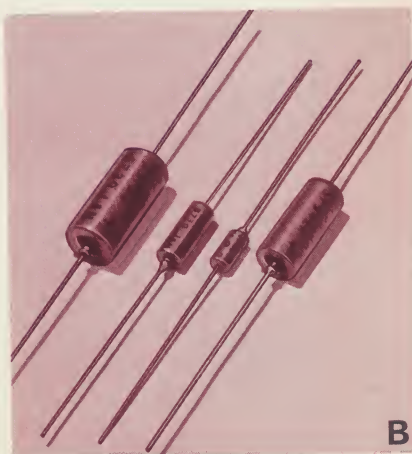
New products in this edition of our General Catalog are called to your attention by a dot (•) and footnote on the pages where they appear. Some of the items which we believe will be most popular in 1968 are pictured here.

*Photograph A:* Left to right, MTV aluminum electrolytic capacitor; TAC solid electrolyte tantalum capacitor; TIM solid electrolyte tantalum capacitor.

*Photograph B:* Four case sizes of new CSR13 solid electrolyte tantalum capacitors.

*Photograph C:* New dual circuit breaker.

*Photograph D:* Model 508 SHIP/MATE lantern with automatic flasher.



## 1968 GENERAL CATALOG

### INTRODUCTION

The 1968 Mallory General Catalog presents in condensed form the thousands of precision electronic components available from Franchised Mallory Distributors. For more detailed information about specific products, ask your distributor for the appropriate Mallory technical bulletin.

Because of the extremely broad nature of the Mallory line, some of the products shown in this catalog may not be stocked by your local Mallory Distributor. He will, however, be pleased to help you in every way possible. Remember, your Mallory Distributor is your best source for all of your electronic requirements.

Prices shown in this catalog are intended solely as a guide and are subject to change without notice.

In the interests of improved design and performance, P. R. Mallory & Co. Inc. reserves the right to make changes in any specifications shown.

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\*TRADEMARK P. R. MALLORY & CO. INC.

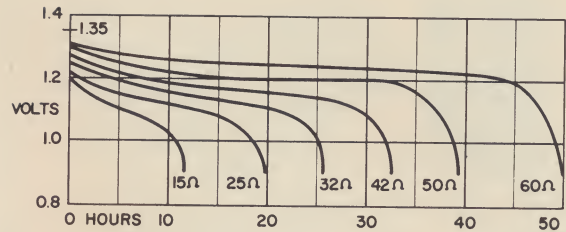
# Battery Data

Mallory DURACELL batteries outperform ordinary zinc-carbon batteries in every application. Two basic types of cells are supplied: Mercury and Alkaline. Mercury cells are used where drains are relatively low and stable voltage is important. Alkaline cells should be used where higher drains are encountered as in photoflash and flashlights. Shelf life for both types is excellent. Mercury cells stored at 70°F retain 90% of rated capacity after 12 months.

Mercury batteries exhibit exceptionally stable voltages throughout the useful life of the cell. Two basic types are available. Those with an "R" suffix are rated at 1.35 volts and are more stable than the "non-R" types. The "non-R" types, however, have a higher initial voltage of 1.4 volts. The "R" types should be used in critical equipment such as medical electronics while the "non-R" types are more applicable to transistor radios, etc.

The chart to the right shows typical data for a mercury cell at rates of discharge ranging from 15 to 60 ohms at 70°F. While this curve applies to the RM1 cell, other cells are similar. Service life of the RM1 ranges from 12 hours at 80 ma to 50 hours at 20 ma. Thus, the rated capacity of the cell is stated at 1000 milliamperehours (mah).

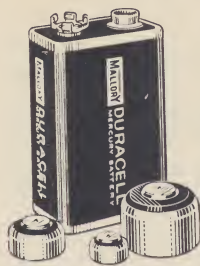
The drawings show dimensions for popular DURACELL batteries.



MERCURY DURACELL* BATTERIES					
<b>RM1-RM1R</b> 	<b>RM4-RM4R</b> 	<b>RM12-RM12R</b> 	<b>RM42-RM42R</b> 	<b>RM312</b> 	<b>RM400</b> 
<b>RM401-RM401R</b> 	<b>RM450R</b> 	<b>RM625-RM625R</b> 	<b>RM630-RM630R</b> 	<b>RM640-RM640R</b> 	<b>RM675</b> 
<b>TR126</b> 	<b>TR133</b> 	<b>TR146X</b> 	<b>TR164</b> 	<b>TR177</b> 	<b>ZM9-RM502R</b> 
ALKALINE DURACELL* BATTERIES					
<b>MN2400</b> 	<b>MN1500-SA15AA</b> 	<b>MN1400-SA14C</b> 	<b>MN1300-SA13D</b> 	<b>Other alkaline Duracell batteries</b> <b>MN1306</b> - See TR133 <b>MN1604</b> - See TR146X <b>MN9100</b> - See RM401  <b>* DURACELL is a registered trademark of P.R. Mallory &amp; Co. Inc.</b>	
AAA	AA	C	D		



# Duracell® Batteries



## MERCURY DURACELL BATTERIES

Mercury Duracell batteries offer more power per unit of volume than any other type. Sizes range from the RM312, which is aspirin tablet size, up thru the Power-Pak types. Voltage stability is excellent, as is storage life. Types with **R** in the suffix are rated at 1.35 volts per cell; all others rated 1.4 V. All have flat terminals unless otherwise noted. Types with suffix **T** have solder tab on negative terminal; suffix **T2** types have solder tabs on both terminals.

Mallory Number	Volts	Cap. mA-h	Use	Size, Inches L. x W. x H.	Wt. Oz.	List Pr.
RM1	1.4	1000	Phys. hndep.	5/8 dia. x 2 1/2	0.43	\$0.75
RM1R	1.35	1000	Electronic	5/8 dia. x 2 1/2	0.43	.95
RM1RT†	1.35	1000	Electronic	5/8 dia. x 2 1/2	0.43	1.00
RM1RT2‡	1.35	1000	Electronic	5/8 dia. x 2 1/2	0.93	1.05
RM3R	1.35	2200	Electronic	1.2 dia. x 2 1/2	1.6	1.95
RM4R	1.35	3400	Electronic	1.2 dia. x 2 1/2	1.6	2.00
RM4RT†	1.35	3400	Electronic	1.2 dia. x 1 1/2	1.2	1.50
RM4Z	1.4	2400	Electronic	5/8 dia. x 1 1/2	2.0	1.25
RM12	1.4	3600	Tape recdr.	5/8 dia. x 1 1/2	2.0	1.50
RM12R	1.35	3600	Tachometer	5/8 dia. x 1 1/2	2.0	1.55
RM12RT†	1.35	3600	Electronic	5/8 dia. x 1 1/2	2.0	1.60
RM12RT2‡	1.35	3600	Electronic	5/8 dia. x 2 3/8	5.9	3.95
RM42	1.4	14000	Elec. "D"	1.2 dia. x 2 3/8	5.9	4.50
RM42R	1.35	14000	Elec. "D"	1.2 dia. x 2 3/8	5.9	4.55
RM42RT†	1.35	14000	Elec. "D"	1.2 dia. x 2 3/8	5.9	4.60
RM42RT2‡	1.35	14000	Elec. "D"	1.2 dia. x 2 3/8	0.02	.35
RM312	1.4	36	Phys. hndep.	29/64 dia. x 3/64	0.04	.35
RM400	1.4	75	Phys. hndep.	29/64 dia. x 3/64	0.04	.50
RM400R	1.35	75	Electronic	29/64 dia. x 3/64	0.04	.60
RM400RT2‡	1.35	75	Electronic	29/64 dia. x 1 1/8	0.4	.75
RM401	1.4	800	Radio "N"	29/64 dia. x 1 1/8	0.4	.85
RM401R	1.35	800	Electronic	1 x 1 3/32 x 1 3/16	1.08	2.95
RM411	14	160	Electronic	1 x 1 3/32 x 1 3/16	1.65	3.95
RM412	22.5	160	Electronic	1 x 1 3/32 x 2 1/2	2.04	4.95
RM413	28	160	Electronic	1 x 1 3/32 x 3 1/2	3.03	7.50
RM415*	42	160	Electronic	29/64 dia. x 3/64	0.18	.75
RM450R	1.35	350	Electronic	1/2 dia. x 1 1/2	1.05	1.25
RM502R	1.35	2400	Electronic	1/2 dia. x 1 1/2	0.07	.25
RM520	1.4	130	Phys. hndep.	1/2 dia. x 3/32	0.05	.35
RM575	1.4	100	Phys. hndep.	455 dia. x 1/2	1.2	1.30
RM601R	1.35	1800	Electronic	5/8 dia. x 1 3/32	1.2	1.40
RM601RT2‡	1.35	1800	Electronic	5/8 dia. x 1 3/32	0.14	.60
RM625	1.4	350	Phys. hndep.	5/8 dia. x 1/4	0.14	.75
RM625R	1.35	250	Electronic	5/8 dia. x 1/4	0.14	.80
RM625RT†	1.35	250	Electronic	5/8 dia. x 1/4	0.14	.85
RM625RT2‡	1.35	250	Electronic	5/8 dia. x 1/4	0.17	.60
RM630	1.4	350	Phys. hndep.	5/8 dia. x 1/4	0.17	.75
RM630R	1.35	250	Electronic	5/8 dia. x 1/4	0.26	.60
RM640	1.4	500	Radio	5/8 dia. x 7/16	0.26	.75
RM640R	1.35	500	Electronic	5/8 dia. x 7/16	0.26	.85
RM640RT2‡	1.35	500	Electronic	5/8 dia. x 7/16	0.07	.45
RM675	1.4	160	Phys. hndep.	29/64 dia. x 13/64	0.29	2.25
TR112	2.8	350	Electronic	2 1/2 dia. x 5 3/4	0.45	2.50
TR113R	4.05	250	Electronic	2 1/2 dia. x 1 1/16	0.59	2.65
TR114R	5.4	250	Electronic	2 1/2 dia. x 1 1/16	0.59	2.75
TR114RT2‡	5.4	250	Electronic	2 1/2 dia. x 1 1/16	0.73	2.95
TR115	7.0	350	Dictating	2 1/2 dia. x 1 1/16	0.73	2.95
TR115R	6.75	250	Electronic	2 1/2 dia. x 2 1/32	1.13	3.75
TR118	11.2	350	Medical	2 1/2 dia. x 2	1.6	1.95
TR126	8.4	600	Radio	2 1/2 dia. x 1 5/16	1	1.50
TR132	2.8	1000	Paging	2 1/2 dia. x 1 5/16	1	1.65
TR132R	2.7	1000	Electronic	2 1/2 dia. x 2	1.4	1.65
TR133	4.2	1000	Radio, Pag.	2 1/2 dia. x 2	1.4	1.95
TR133R	4.05	1000	Radio, Pag.	2 1/2 dia. x 2 3/32	1.9	2.25
TR134	5.6	1000	Gar. door	2 1/2 dia. x 2 3/32	1.9	2.35
TR134RT2‡	5.6	1000	Electronic	2 1/2 dia. x 2 3/32	1.9	2.50
TR134R	5.4	1000	Electronic	2 1/2 dia. x 3 1/4	2.4	2.75
TR135	7.0	1000	Gar. door	2 1/2 dia. x 3 1/4	2.4	2.95
TR135R	6.75	1000	Electronic	2 1/2 dia. x 3 1/4	2.9	3.25
TR136	8.4	1000	Gar. door	2 1/2 dia. x 3 1/4	2.9	3.50
TR136R	8.1	1000	Electronic	2 1/2 dia. x 3 1/4	3.4	3.75
TR137	9.8	1000	Electronic	2 1/2 dia. x 4 3/8	3.4	3.95
TR137R	9.45	1000	Electronic	2 1/2 dia. x 1 3/8	0.58	2.50
TR145	7	250	Electronic	2 1/2 dia. x 1 3/8	2.0	1.95
TR146X*	8.4	575	Radio	1 x 1 1/2 x 1 3/8	0.42	1.25
TR152	2.8	350	Electronic	1 3/32 dia. x 1 1/8	0.42	1.50
TR152R	2.7	350	Electronic	1 3/32 dia. x 1 1/8	0.42	1.65
TR153	4.2	350	Electronic	1 3/32 dia. x 1 1/8	0.6	1.95
TR153R	4.05	350	Electronic	1 3/32 dia. x 1 1/8	0.6	1.95
TR162R	2.7	500	Electronic	2 1/2 dia. x 7/8	0.58	1.65
TR163	4.2	500	TV tuner	2 1/2 dia. x 1 5/16	0.87	1.85
TR163R	4.05	500	Electronic	2 1/2 dia. x 1 5/16	0.87	1.95
TR164	5.6	500	Radio	2 1/2 dia. x 1 3/4	1.16	2.25
TR164R	5.40	500	Electronic	2 1/2 dia. x 1 3/4	1.16	2.50
TR165	7	500	TV tuner	2 1/2 dia. x 2 3/16	1.45	2.75
TR165R	6.75	500	Electronic	2 1/2 dia. x 2 3/16	1.45	2.95
TR169	12.6	500	Electronic	2 1/2 dia. x 3 7/8	2.88	4.95
TR175	7	350	Radio	3 1/4 dia. x 1 3/8	0.4	1.50
TR177*	9.8	160	Radio	3 1/4 dia. x 1 3/8	0.67	1.95
TR233	4.2	2200	Radio	1 1/4 dia. x 1 3/32	3	3.25
TR233R	4.05	2200	Electronic	1 1/4 dia. x 1 3/32	3	3.75
TR234	5.4	2200	Electronic	1 1/4 dia. x 2 1/32	3.88	3.95
TR234R	5.6	2200	Electronic	1 1/4 dia. x 2 1/32	3.88	4.50
TR235R	6.75	2200	Electronic	1 1/4 dia. x 3 1/4	4.63	5.25
TR236R	8.10	2200	Electronic	1 1/4 dia. x 3 3/4	4.76	5.95
TR286*	8.4	750	Radio	1 dia. x 1 1/16	1.6	1.95
TR289*	12.6	750	CB radio	1 dia. x 2 23/64	3.6	3.25
TR431*	11.2	1000	Dictation	1 dia. x 2 7/8	5	3.95
ZM9	1.4	2400	Radio "AA"	1/2 dia. x 1 3/32	1	1.50
ZM12	1.4	3600	Clock	5/8 dia. x 2	2.0	1.35

\*Snap terminals. †1 tab, 1 flat terminal. ‡2 tab terminals.

## MERCURY POWER-PAK★ BATTERIES

Mercury Power-Pak batteries are used in heavy duty industrial applications where extreme reliability is required. Detailed drawings of terminals and precise specifications are available on request.

Mall. No.	Volts	mA-h	Use	Terminals	List
302157	1.35	28,000	Radiation eqpt.	Socket	\$17.75
302250	9.45	250	Radiation eqpt.	Tab	4.40
302351	5.4	2,200	Fire alarm	Flat	9.00
302358	10.8	250	Radiation eqpt.	Leads	5.95
302362	16.2	250	Radiation eqpt.	Leads	8.00
302435	6.75	250	Radiation eqpt.	Flat	4.95
302462	97.2	1,000	Transmitter "B"	Leads	56.00
302465	47.25	1,000	Geophysical	Leads	32.00
302478	9.8	2,400	Recorder	Flat	9.80
302497	6.75	2,200	Test equipment	Posts	12.50
302579	29.7	250	Test equipment	Leads	18.00
302580	27	3,400	Electronic	Socket	48.00
302642	7.0	2,400	Fire alarm	Flat	7.40
302651	1.35	14,000	Electronic	Leads	6.90
302702	2.7	2,200	Geophysical	Leads	5.40
302904	5.4	3,400	Meter	Leads	9.95
302905	6.75	3,400	Test equipment	Leads	11.50
302907	9.45	3,400	Electronic	Leads	15.00
302908	10.8	3,400	Radiation eqpt.	Leads	16.50
303145	8.4	3,600	Depth finder	Snap	9.95
303219	9.8	175	Electronic	Flat	2.95
303236	4.2	1,000	Electronic	Flat	1.80
303314	16.8	2,400	Transceiver	Flat	15.40
303394	11.2	3,600	Electronic	Snap	14.50
303462	15.4	2,400	Transceiver	Flat	16.50

## ALKALINE DURACELL BATTERIES



Designed for high drain use such as photoflash, movie cameras, lighting, etc. Deliver up to 10 times longer life than zinc-carbon types. Add suffix **B** for blister pack.

## STANDARD ALKALINE DURACELL BATTERIES

Mallory No.	Volts	Use	Wt., Oz.	List Pr.
MN1300	1.5	All purpose "D"	5 1/4	\$0.90
MN1300C	1.5	Clock "D"	5 1/4	1.25
MN1306	4.5	Transistor radio	1 1/3	1.25
MN1400	1.5	All purpose "C"	2 1/3	.60
MN1400C	1.5	Clock "C"	2 1/3	.60
MN1500	1.5	All purpose "AA"	.82	.50
MN1604	9.0	Transistor radio	1 1/2	1.50
MN1611	9.0	Radio	1 1/2	1.50
MN2400	1.5	All purpose "AAA"	.4	.50
MN9100	1.5	All purpose "N"	.34	.40

## RECHARGEABLE ALKALINE DURACELL BATTERIES

Used in portable TV sets, record players, etc. Provide low cost rechargeable power, but require special recharging circuit. For details on circuit, ask for Bulletin 6-136. **NOT interchangeable with other rechargeable batteries.**

Mallory No.	Volts	Size, Inches (Cell)	Wt., Oz.	List
SA13D	1.5	1.3 dia. x 2.367 h. (D)	5	\$1.50
SA14C	1.5	1.01 dia. x 1.93 h. (C)	2 1/2	1.25
SA15AA	1.5	0.55 dia. x 1.94 h. (AA)	1	.75

## DURACELL PHOTO BATTERIES

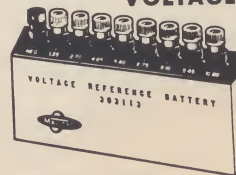
Mallory Number	Volts	Wt. Oz.	List Price	Mallory Number	Volts	Wt. Oz.	List Price
PX1	1.35	0.6	\$0.95	PX25	4.05	0.5	\$2.25
PX4	5.6	3.2	2.25	PX28	6.0	0.13	1.98
PX6	8.1	4.0	3.95	PX29	4.05	0.22	1.70
PX13B	1.35	0.14	.75	PX450	1.35	0.3	.75
PX14	2.7	0.3	1.50	PX625	1.35	0.15	.75
PX18	4.5	5.3	5.95	PX640	1.35	0.38	.75
PX19*	4.5	1.2	1.25	PX675B	1.35	0.07	.60
PX21*	4.5	1.2	1.25	PX825*	1.5	0.38	.50
PX23	5.6	2.0	.85	TR112R	2.7	0.29	1.90
PX24*	3.0	1.0	1.00				

\*Alkaline; all others mercury.

## SILVER OXIDE DURACELL BATTERIES

Mallory Number	Volts	Size, In.	List Pr.
MS13	1.5	.21 x .31	40c
MS41	1.5	.16 x .46	40c
MS76	1.5	.21 x .46	45c

## VOLTAGE REFERENCE BATTERY



The voltage reference battery uses high reliability mercury cells to achieve an exceptionally high degree of stability. Voltage accuracy is  $\pm 1/2\%$  for periods up to 2 years when used as directed. Supplied in lined leatherette case with instructions. Eight voltages from 1.35 to 10.80 V in 1.35-volt steps.

Mallory No. 303113—List. \$36.50

\*Mallory trademark.



# Batteries and Flashlights



## ZINC-CARBON BATTERIES

Mallory zinc-carbon batteries are manufactured to rigid quality control standards. Each type is specially engineered to provide the finest operation for its specific use. A wide variety of sizes and voltages are available for use in lighting, radios, toys, games, etc. Standard D and C cells are "Sealed in steel" for maximum protection from leakage.

Mallory No.	Nom. Volts	Use	T*	Size, inches L. x W. x H.	Wt., Oz.	List Price
M9	7.5	Radio "A"	a	2 7/16 x 1 1/2 x 3 3/32	8	\$ 1.75
M13F	1.5	Flashlight "D"	b	1 1/32 dia. x 2 1/32	3.3	.25
M13P	1.5	Photo "D"	b	1 1/32 dia. x 2 1/32	3.3	.30
M13R	1.5	Radio "D"	b	1 1/32 dia. x 2 1/32	3.3	.30
M14F	1.5	Flashlight "C"	b	1 1/32 dia. x 1 1/16	1.5	.25
M14P	1.5	Photo "C"	b	1 1/32 dia. x 1 1/16	1.5	.30
M14R	1.5	Radio "C"	b	1 1/32 dia. x 1 1/16	1.5	.30
M15F	1.5	"AA" penlight	b	5/16 dia. x 1 1/32	0.5	.20
M15P	1.5	Photo "AA"	b	5/16 dia. x 1 1/32	0.5	.25
M15R	1.5	Radio penlight	b	5/16 dia. x 1 1/32	0.5	.25
M24F	1.5	"AAA" penlite	b	13/32 dia. x 1 1/4	0.4	.20
M200	67.5	Radio "B"	c	2 1/16 x 1 3/8 x 3 3/4	12	3.85
M208	15	Electronic "B"	b	1 1/32 x 5/8 x 1 29/64	1.0	1.15
M210	30	Electronic "B"	b	1 1/32 x 5/8 x 2 3/16	1.8	1.75
M215	22.5	Radio "B"	b	1 1/32 x 5/8 x 2	1.4	1.50
M504	15	Electronic "B"	b	5/8 x 1 1/32 x 1 3/8	0.6	1.15
M505	22.5	Electronic "B"	b	5/8 x 1 1/32 x 1 63/64	0.8	1.50
M506	30	Electronic "B"	b	1 1/32 x 5/8 x 1 27/64	0.9	1.85
M507	30	Electronic "B"	b	5/8 x 1 1/32 x 2 39/64	0.9	1.85
M900	1.5	Ignition	e	2 5/8 x 2 5/8 x 4 3/32	24	1.25
M903	7.5	Lighting	e	7 1/4 x 4 1/16 x 6 7/16	122	7.25
M904	9	Lighting	e	8 9/16 x 4 1/16 x 6 7/16	152	8.25
M905F	1.5	Ignition	f	2 5/8 dia. x 6 5/8	29	1.25
M905S	1.5	Ignition	f	2 5/8 dia. x 6 5/8	29	1.25
M907	6	Industrial	e	10 1/32 x 2 25/32 x 7 7/32	153	4.98
M908	6	Metal lantern	d	2 1/16 x 2 1/16 x 4 7/16	21	1.39
M910F	1.5	Flashlight "N"	b	2 5/8 dia. x 1 3/16	0.22	.13
M915	6	Lighting	e	2 1/16 x 2 1/16 x 4 5/32	21	1.39
M918	6	Lighting	e	5 1/32 x 2 27/32 x 4 15/16	52	2.95
M1600	9	Radio	c	1 dia. x 1 1/16	1.8	.98
M1602	9	Radio	c	1 1/32 x 1 1/32 x 2 3/4	4.5	1.85
M1603	9	Radio	c	2 9/16 x 2 1/32 x 3 5/32	15	1.95
M1604	9	Radio	c	1 1/32 x 1 1/16 x 1 29/32	1.3	.69
M1605	9	Radio	c	1 1/32 x 1 1/16 x 2 7/16	7	1.95
M1611	9	Radio	b	3/4 dia. x 2	1.2	.89
PF489	225	Elect. flash	a	4 1/32 x 2 1/16 x 4 3/16	76	9.95
PF491	240	Elect. flash	a, b	2 1/32 x 1 5/16 x 4 1/2	13	7.95
PF492	225	Elect. flash	a	3 9/16 x 2 29/32 x 4 29/32	72	10.95
PF497	510	Elect. flash	b	3 x 1 1/32 x 5 5/8	26	15.95

\*Terminals: a, socket; b, flat; c, snap; d, coil spring; e, screw; f, Fahnestock clip.

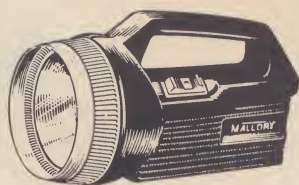
## MALLORY "TORCH" LIGHT



The Mallory "Torch" light is ideal for outdoor use. High-impact plastic case is unaffected by moisture or humidity. Comfortable, contour design is easy to hold; prevents rolling away. Unique, angled head pinpoints the powerful beam. Uses two M13F batteries. For longest life, use two MN1300 Alkaline Duracell® batteries.

Mallory No. 213—Less batteries. List Price.....\$1.59

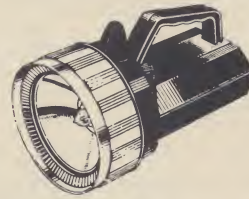
## MALLORY "RUGGED MIKE" LANTERN



The Mallory "Rugged Mike" lantern uses four D-cell batteries to provide a 500-ft. beam. Made of rugged, high-impact plastic for maximum weather protection; lantern will float if dropped in water. Ideal for outdoorsmen or as emergency light in car, boat or home. Uses four M13F batteries or four MN1300 Alkaline Duracell® batteries for longest life and best service.

Mallory No. 413—Less batteries. List Price.....\$2.49

## MALLORY "SHIP/MATE" LANTERN

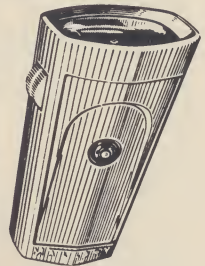


The "Ship/Mate" lantern is constructed of lightweight, high impact plastic for maximum moisture and weather protection. Lantern will float when dropped in water. A powerful spotlight beam and completely enclosed safety flasher are also featured. Uses four M13F batteries. Ideal for outdoor use.

•Mallory No. 508—Less batteries. List Price.....\$1.98

## COMPACT FLASHLIGHTS

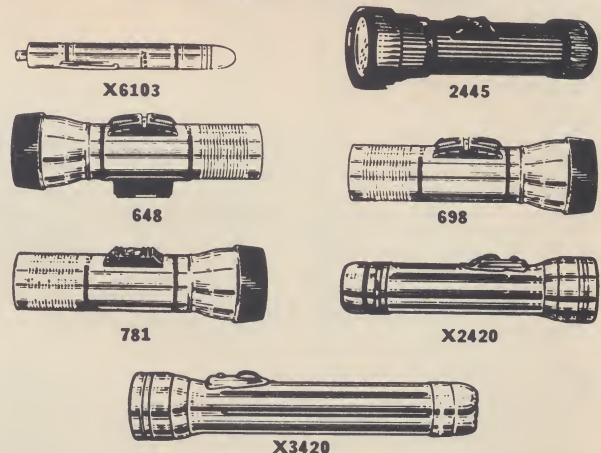
The modern concept in personal lighting. Handy, compact size slips easily into pocket or purse. Delivers powerful 250-ft. spotlight beam. Supplied in attractive beige, high-impact plastic case with two long-lasting Mallory No. MN1500 alkaline batteries.



Mallory No. 807—With clear plastic lens. List Price.....\$1.98

Mallory No. 810—With red plastic lens, ideal for map reading in aircraft. Also handy for emergency use because its beam can be seen for more than 1/2 mile. List Price.....\$1.98

## POWERBEAM® FLASHLIGHTS



Mallory Powerbeam flashlights are manufactured to exacting specifications for long, dependable life. Number X6103 is a penlight type with handy clip for carrying it in a breast pocket. Numbers 648, 698 and 781 have chrome cases with red protector for the lens. Number 2445 "Rugged Mike" is a heavy-duty industrial flashlight which will withstand years of fantastic abuse. Numbers X2420 and X3420 have all-chrome cases with end-cap hanger and project long-distance spotlight beams. All flashlights use either standard zinc-carbon batteries or long-lasting Mallory Alkaline Duracell batteries.

Mallory No.	Description	Use No. and Type of Batteries	List Price*
X6103	Penlite, chrome	2 type "AA"	\$0.79
648	Chrome with magnet	2 "D" cells	1.79
698	Chrome	2 "D" cells	1.19
781	Jr. chrome	2 "C" cells	1.19
2445	Plastic, rubber	2 "D" cells	1.79
2445R	2445 with hanger	2 "D" cells	1.89
X2420	Chrome spotlite	2 "D" cells	1.98
X3420	Chrome spotlite	3 "D" cells	2.49

\*Prices shown do not include batteries.

## POWERBEAM® LANTERN

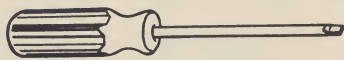
The Mallory Powerbeam "Safety Lite" has a tilting spotlight which projects a powerful beam more than 500 feet. The tilt feature allows the light beam to be directed at any desired angle, regardless of the resting place of the light. The heavily chrome plated handle also contains a swing-up red warning flasher which can be seen clearly for long distances after dark. The "Safety Lite" is supplied with Mallory No. M918 lantern battery.

Mallory No. 385C—List Price...\$11.95



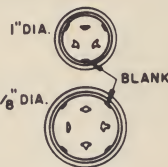


# FP-WP/PFP-PWP Data



**MW100**

Special wrench for mounting standard FP capacitors. Designed to give correct twisting motion to ears when mounting.



## Standard Terminal Lug Sequence

**1" DIAMETER**  
 SINGLE = BLANK SINGLE = BLANK  
 DUAL = HIGH V. DUAL = HIGH V.  
 Δ LOW V. Δ LOW V.  
 TRIPLE = HIGH V. TRIPLE = HIGH V.  
 Δ MED. V. Δ MED. V.  
 Δ LOW V. Δ LOW V.

**1 3/8" DIAMETER**  
 SINGLE = BLANK SINGLE = BLANK  
 DUAL = HIGH V. DUAL = HIGH V.  
 Δ LOW V. Δ LOW V.  
 TRIPLE = HIGH V. TRIPLE = HIGH V.  
 Δ MED. V. Δ MED. V.  
 Δ LOW V. Δ LOW V.

For identical voltages use above sequence based on capacity

## MOUNTING AND MECHANICAL DETAILS

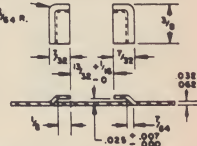
FP series capacitors are available in three diameters: 3/4", 1", and 1 3/8". Lengths and mounting hardware are shown below. Chassis punch details are shown to the right. Use BP (phenolic) or MP (metal) plates where direct chassis layout is not desired. See page 9 for VR clamps.

		HARDWARE					
SIZE CODE	SIZE, INCHES DIA. x LGTH.	BP—MP—	CE—	TH—	PS—	VR—	
A	3/4 x 2	2	1	19	—	—	
B	1 x 2	4	3	23	4	1	
C	1 x 2 1/2	4	7	23	4	1	
D	1 x 3	4	4	23	4	1	
E	1 x 4	4	8	23	4	1	
F	1 3/8 x 2	6	5	25	6	3	
G	1 3/8 x 2 1/2	6	9	25	6	3	
H	1 3/8 x 3	6	6	25	6	3	
I	1 3/8 x 4	6	10	25	6	3	
J	1 3/8 x 3 1/2	6	12	25	6	3	
K	1 x 3 1/2	4	11	23	4	1	
L	1 x 1 1/2	4	2	23	4	1	
M	1 x 1 3/4	4	13	23	4	1	
N	1 3/8 x 4 1/2	6	—	25	6	3	
O	3/4 x 1 1/2	2	14	19	—	—	
P	1 3/8 x 1 1/2	6	5	25	6	3	
Q	1 x 2 3/4	4	7	23	4	1	
R	1 3/8 x 1 3/4	6	5	25	6	3	

\*TH clips shown for bare cans only.

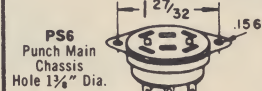
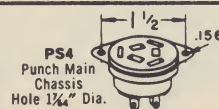
**INSULATING SLEEVES**—Closed end cardboard tubes used to insulate metal can where shock potential is present. Tubes add 1/32" to can base diameter and 1/16" to overall height.

**HORIZONTAL MOUNTING CLIPS**—Use TH clips for fast, easy assembly without tools. Punch chassis as shown. Clips slide into, then lock in place. Will pass vibration test. May be riveted to chassis if desired (hole is 1/4" dia.).

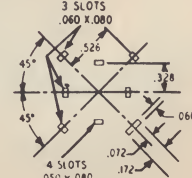
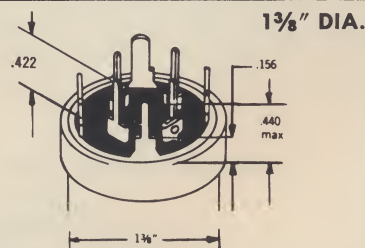
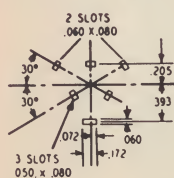
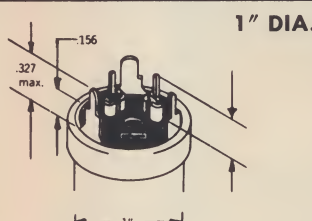
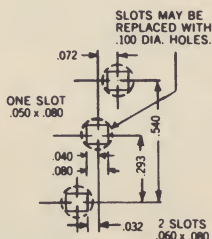
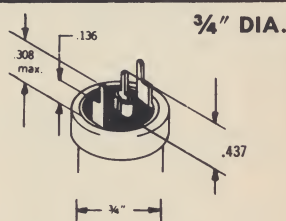


**PLUG-IN SOCKETS**—Provide plug-in convenience for standard FP-WP capacitors. Blank ear must be removed from capacitor to insure polarization. PSC4 retainer clip available to positively lock 1" capacitor in PS4.

Not available for 3/4" Size



## PFP-PWP MOUNTING DETAILS





# Metal Can Electrolytic Capacitors



## METAL CAN ELECTROLYTIC CAPACITORS

FP-WP capacitors are designed for 85° C operation, and have standard twist-prong mounting lugs with solder terminals. PFP-PWP types use standard EIA printed circuit terminals and can be used in place of normal solder terminal types. FPS is special mounting for auto radios. FP-WP types may be adapted to printed circuit mounting by using an **FPA Adapter Kit** (Net Each, 27c). All types use "etched cathode" construction for hum-free operation, and have an exclusive vent and seal design. Standard tolerance: Up to 50 WVDC, -10% to +150%; 51 to 350 WVDC, -10% to +100%; 351 WVDC and up, -10% to +50%.

### FP-WP AND PFP-PWP—SINGLES

Mallory No.	Cap., $\mu$ F	WV DC	*	Net Each	Mallory No.	Cap., $\mu$ F	WV DC	*	Net Each	Mallory No.	Cap., $\mu$ F	WV DC	*	Net Each	Mallory No.	Cap., $\mu$ F	WV DC	*	Net Each
WP540	1.0Z/60†	3NP	h	\$2.92	PWP060A	1500	25	c	\$2.01	FP117A	150	150	b	\$1.48	FP140.5A	140	350	g	\$2.54
WP505	10Z/30†	3NP	a	1.24	FP060.2	2000	25	r	2.56	FP117.5	150	150	f	1.73	FP140.6A	150	350	g	2.63
PWP030A	750	6	o	1.24	FP060.4A	4000	25	g	3.93	FP118A	200	150	f	1.88	FP141	320	350	i	4.23
FP030.6	5000	6	c	3.18	FP060.5A	5000	25	h	4.63	FP119A	300	150	f	2.15	FP142	10	450	a	1.04
FP030.8	10000	6	g	5.50	WP060.8	7500	25	n	6.31	FP121	120	200	f	1.79	FP143A	15	450	l	1.24
PWP031C	2500	10	m	2.25	WP063	4	50	a	.92	FP122A	125	200	b	1.57	FP144A	20	450	m	1.31
FP031.6A	5000	10	c	3.45	WP064A	100	50	l	1.18	PFP121.5	125	200	b	1.61	PFP144A	20	450	m	1.35
FP031.8A	10000	10	g	6.16	PWP-					PFP122A	160	200	f	2.00	FP145A	30	450	b	1.45
WP035	225	15	a	1.04	063.9A	100	50	o	1.04	WP123A	500	200	h	3.38	FP146	40	450	c	1.58
PWP036	400	15	a	1.13	WP064.2A	150	50	l	1.24	FP125	15	250	a	1.00	FP147	50	450	d	1.72
WP039A	1000	15	l	1.56	WP065	500	50	f	1.73	WP125.5A	140	250	c	1.82	FP148A	60	450	f	2.10
WP041A	2000	15	f	2.35	WP066B	500	50	b	1.51	WP125.9A	150	250	c	1.87	FP149	80	450	g	2.37
WP042A	3000	15	f	2.92	FP066.5	1000	50	f	2.18	FP127	200	250	d	.92	FP150A	100	450	g	2.68
FP042.6	5000	15	g	4.05	PWP067A	1250	50	g	2.47	FP128A	80	300	c	1.61	FP155A	125	450	h	3.05
FP042.8A	10000	15	h	6.66	WP068	1500	50	h	2.70	FP129.1A	100	300	c	1.75	FP171A	10	500	l	1.22
WP052	40	25	a	.95	FP107A	2000	50	h	3.21	WP131.5	160	300	g	2.43	FP173A	20	500	m	1.41
WP055A	100	25	l	1.14	FP113	30	150	a	1.00	WP132	200	300	g	2.71	FP175A	30	500	b	1.60
PWP056	400	25	b	1.32	FP115A	50	150	l	1.19	FP135A	30	350	l	1.31	FP176	40	500	f	2.02
WP057A	500	25	l	1.35	FP116A	100	150	l	1.34	FP137A	50	350	b	1.48	FP177	40	500	d	1.79
WP059	1000	25	f	1.89	FP116.5A	120	150	b	1.40	FP137.2A	60	350	c	1.53	PFP-				
					FP116.6	120	150	f	1.64	FP138A	80	350	f	2.00	176.5A	40	500	c	1.83
					PFP116.8A	140	150	b	1.49	FP140A	125	350	g	2.41	FP187A	90	500	g	2.95

### FP-WP AND PFP-PWP—DUALS

Mallory No.	Capacity, $\mu$ F	WVDC	*	Net Each	Mallory No.	Capacity, $\mu$ F	WVDC	*	Net Each	Mallory No.	Capacity, $\mu$ F	WVDC	*	Net Each
WP204	250-1000	10-6	f	\$2.01	PFP216.4A	200-200	150-150	g	\$2.70	FP229.8A	80-100	450-50	g	\$2.58
WP205	.5Z-2.5Z/15750†-60†	12-6	i	2.91	PFP216.45	50-100	200-150	f	2.00	FP229.9A	30-200	450-150	g	2.47
WP200	1000-1000	15-15	f	2.48	PFP216.5A	40-20	200-200	l	1.48	FP230A	20-50	450-250	c	1.74
WP200.1B	1000-1000	15-15	b	2.27	FP216.6A	60-60	200-200	b	1.69	WP230.2	20-200	450-250	h	1.84
FPS200.13A	1000-1000	16-10	b	2.23	FP216.1A	200-5	200-200	f	2.30	FP230.3A	40-10	450-300	c	1.82
WP200.23	1500-1000	16-10	f	2.68	PFP216.1A	200-5	200-200	f	2.34	FP230.5	10-50	450-350	d	1.79
PFP200.64	500-500	16-16	l	1.75	FP216.7	250-100	200-200	g	2.91	FP230.6A	10-100	450-350	g	2.52
PFP200.65	500-500	16-16	l	1.74	FP217.865	100-100	200-100	k	2.34	FP235	20-80	450-350	g	2.46
PFP200.65A	700-200	16-16	l	1.68	FP217A	40-25	250-150	l	1.49	PFP230.7	80-2	450-350	h	2.63
WP200.18	800-200	16-16	b	1.70	FP217A	20-20	250-250	l	1.41	PFP217.11	2-20	450-400	b	1.50
PFP200.19	1000-200	16-16	b	1.86	FP221A	40-40	250-250	m	1.63	WP230.9A	5-5	450-450	l	1.33
WP200.21A	1000-500	16-16	b	1.98	FP217.7A	150-150	250-250	g	3.12	FP231A	10-10	450-450	m	1.46
PWP200.3A	250-250	20-20	l	1.49	WP217.74A	200-200	250-250	n	3.70	FP231.2	20-5	450-450	b	1.53
WP200.5A	500-100	20-20	l	1.52	FP217.85A	30-60	350-350	m	1.68	FP231.3A	20-10	450-450	b	1.59
PWP200.6	500-100	20-20	b	1.56	FP217.8A	20-60	300-250	b	1.66	FP234A	20-20	450-450	c	1.73
PFP200.7	500-100	20-20	b	1.56	PFP217.86	10-10	300-300	f	1.64	FP237	30-30	450-450	g	2.28
WP200.7A	500-200	20-20	l	1.58	FP217.87	40-40	300-300	f	2.02	FP238A	40-40	450-450	g	2.54
PWP200.4A	800-250	20-20	b	1.83	FP217.88	50-10	300-300	f	1.88	FP239A	50-40	450-450	g	2.70
WP200.2B	1000-2000	25-15	f	3.20	FP217.9A	75-75	300-300	g	2.54	FP240†	50-50	450-450	h	2.99
WP201.1A	40-40	25-25	l	1.27	FP218A	120-20	300-300	g	2.82	FP242A	60-20	450-450	g	2.55
PWP-					WP219	125-60	300-300	g	2.82	FP242.5B	60-60	450-450	g	3.13
201.13A	400-200	25-25	l	1.60	FP219.7	150-100	300-300	h	3.26	FP245A	80-10	450-450	g	2.70
PWP-					FP219.9	200-100	300-300	j	3.65	FP245.2	80-20	450-450	h	2.83
201.15A	1000-1000	25-25	f	2.78	PFP220.1	40-25	350-25	b	1.61	FP245.3B	80-30	450-450	h	2.99
PWP201.3A	1500-1500	25-25	g	3.46	FP223A	5-75	350-150	m	1.46	FP247A	100-40	450-450	j	3.41
WP201.5A	1000-1000	35-35	f	2.96	FP225A	15-15	350-350	m	1.46	FP248	100-60	450-450	i	3.68
WP202.1A	50-50	50-50	f	1.33	FP227A	20-20	350-350	b	1.55	FP250A	40-80	475-250	f	2.44
WP202.5A	100-100	50-50	l	1.46	FP227.3A	30-30	350-350	c	1.73	FP252B	80-80	475-250	h	3.22
WP205.8	50-1000	150-8	b	1.89	WP227.35	80-20	350-350	d	2.10	FP253	80-160	475-250	n	3.70
FP208A	20-20	150-150	l	1.31	FP227.4A	80-20	350-350	f	2.34	FP255A	20-100	475-300	g	2.50
FP211A	30-30	150-150	l	1.37	FP227.5A	80-40	350-350	g	2.55	FP256A	20-100	475-400	j	3.01
FP210A	40-20	150-150	l	1.37	FP227.6A	80-80	350-350	h	2.92	FP258	15-15	475-475	c	1.67
FP212A	40-40	150-150	l	1.43	FP227.7A	100-100	350-350	j	3.29	FP259	30-10	475-475	d	1.84
FP213A	50-30	150-150	l	1.43	FP227.8A	150-100	350-350	j	3.98	FP260B	40-10	475-475	f	2.27
PFP213.1A	50-30	150-150	l	1.47	FP228.3	150-20	350-350	h	3.01	FP262A	40-40	475-475	g	2.76
FP214A	50-50	150-150	l	1.50	FP229A	35-100	400-50	c	1.75	FP263B	60-40	475-475	h	3.09
PFP214.3	70-30	150-150	b	1.53	FP229.25	80-4	400-350	e	2.21	FP264.5A	80-40	475-475	h	3.43
FP214.5	75-75	150-150	f	1.90	FP229.28	100-10	400-350	g	2.74	FP265A	80-50	475-475	j	3.58
FP214.6A	75-75	150-150	b	1.63	FP229.3	75-75	400-400	i	3.31	WP272A	10-100	500-50	m	1.51
FP216.2A	80-40	150-150	m	1.55	FP229.4	80-60	400-400	i	3.20	FP282.5	20-20	500-500	b	1.56
PWP214.4A	80-40	150-150	b	1.59	FP229.5	120-40	400-400	i	3.43	FP283	30-10	500-500	f	2.19
WP216.2A	80-50	150-150	b	1.57	WP229.52	120-120	400-400	i	4.37	FP284A	30-30	500-500	f	2.58
PFP214.7A	100-50	150-150	b	1.67	FP229.53	40-50	450-50	d	1.81	PFP284.1B	30-30	500-500	f	2.62
FP215A	125-100	150-150	r	2.13	FP229.55A	40-100	450-50	d	1.88	FP288A	40-40	500-500	g	2.96
FP216.3A	200-150	150-150	f	2.48	FP229.6A	50-100	450-50	f	2.28	FP290A	60-40	500-500	h	3.35
FP216.4A	200-200	150-150	g	2.66	FP244	80-50	450-50	h	2.64					

†Hz. ‡Can ungrounded for photoflash.

### FP-WP AND PFP-PWP—TRIPLES

Mallory No.	Capacity, $\mu$ F	Working Volts DC	*	Net Each	Mallory No.	Capacity, $\mu$ F	Working Volts DC	*	Net Each	Mallory No.	Capacity, $\mu$ F	Working Volts DC	*	Net Each
● FP300.12	1000-150-15	16-4-#	b	\$2.52	FPS300.93	1000-500-15	16-16-#	q	\$2.67	WP300.85B	500-500-100	16-16-16	i	\$1.89
● PFP300.45	600-120-170	16-16-16	l	1.77	PWP300.3A	250-250-50	16-16-16	l	1.62	PFP300.87	700-200-100	16-16-16	l	1.87
WP300.6A	850-400-2.2	16-16-#	b	2.10	PWP300.4B	250-250-500	16-16-16	l	1.87	WP300	1000-500-20	16-16-16	f	2.49
WP300.7A	850-400-4	16-16-#	b	2.10	WP300.5	400-100-100	16-16-16	b	1.61	WP300.17A	500-200-5	16-16-25	m	1.71
FPS300.75	850-400-8	16-16-#	a	3.01	PFP300.65	400-300-100	16-16-16	m	1.76	WP520A	40-40-40	25-25-25	l	1.38
FP300.76	850-400-8	16-16-#	c	2.14	PFP300.83	500-100-100	16-16-16	m	1.70	WP301A	30-30-30	50-50-50	l	1.45
FP300.77	850-400-12	16-16-#	c	2.18	PFP300.81	500-300-300	16-16-16	l	1.93	FP312A	100-50-25	150-50-25	b	1.71
FP300.78	850-400-12	16-16-#	c	2.73	PFP300.18	500-450-100	16-16-16	l	1.90	PFP302.38	70-30-100	150-150-10	c	1.75
● FP300.83	400-500-100	16-16-16	l	1.83						FP302.5A	80-60-250	150-150-10	b	1.78
WP300.88	1000-400-4	16-16-#	c	2.08						PFP302.55B	80-60-250	150-150-10	b	1.82
WP300.89	1000-400-4	16-16-#	f	2.33						WPFP302.75A	90-40-400	150-150-10	c	1.80
WP300.9A	1000-500-4	16-16-#	b	2.13										
FPS300.91	1000-500-4	16-16-#	q	2.26										

\*Sizes on another page. #11.5 rms.



# Metal Can Electrolytic Capacitors

Mallory No.	Capacity, $\mu$ F	WVDC	*	Net Each
FP302.8A	100-80-200	150-150-10	f	\$2.26
FP302.9	80-20-100	150-150-15	f	1.98
FP306A	40-20-20	150-150-25	l	1.38
FP311.1A	40-20-20	150-150-25	l	1.57
FP307A	40-20-100	150-150-25	l	1.61
FP304A	40-20-200	150-150-25	m	1.71
FP310A	40-40-20	150-150-25	m	1.59
FP314A	40-40-200	150-150-25	m	1.78
WP308.1A	40-40-250	150-150-25	b	1.80
FP309A	50-30-100	150-150-25	m	1.66
FP311A	50-50-20	150-150-25	m	1.65
PFP-				
FP311.12A	70-30-20	150-150-25	b	1.69
FP311.05	80-20-200	150-150-25	b	1.82
FP311.1A	80-40-25	150-150-25	b	1.71
FP311.15A	80-40-300	150-150-25	f	2.24
FP311.2A	20-20-20	150-150-150	l	1.51
FP311.3A	30-25-20	150-150-150	l	1.59
PFP-				
FP311.63A	30-50-40	150-150-150	b	1.73
FP311.4A	40-20-20	150-150-150	l	1.57
FP311.5A	40-40-40	150-150-150	m	1.69
FP311.55A	40-60-40	150-150-150	m	1.79
FP311.55A	50-20-20	150-150-150	m	1.60
PFP-				
FP311.62A	50-30-20	150-150-150	m	1.67
FP311.6A	50-40-10	150-150-150	m	1.63
FP311.65A	50-50-50	150-150-150	f	1.77
FP311.53	60-60-40	150-150-150	f	2.12
FP311.53	60-60-60	150-150-150	c	1.88
FP311.6A	70-15-15	150-150-150	m	1.63
FP311.66A	70-40-40	150-150-150	b	1.77
FP311.8A	70-40-40	150-150-150	m	1.66
FP311.67A	80-40-20	150-150-150	f	2.02
FP311.7	80-40-20	150-150-150	b	1.74
PWP-				
FP311.75A	80-60-20	150-150-150	c	1.86
FP311.8A	120-80-20	150-150-150	c	1.99
FP311.85A	120-80-40	150-150-150	f	2.32
FP311.9A	120-120-40	150-150-150	f	2.43
WP-				
FP311.95A	150-50-50	150-150-150	f	2.35
FP312.5A	200-100-60	150-150-150	g	2.69
FP312.6A	300-100-80	150-150-150	g	3.04
PWP315	80-100-40	160-160-160	d	2.09
FP312.8A	60-200-140	200-150-150	g	2.88
FP314.7	150-150-60	200-150-150	e	2.61
FP315.1	60-5-200	200-200-50	c	1.89
FP318.3A	30-20-40	200-200-150	m	1.66
FP318.5A	20-20-20	200-200-200	l	1.73
FP318.7B	30-20-20	200-200-200	l	1.62
FP318.7A	40-40-20	200-200-200	f	2.02
FP318.77	60-60-40	200-200-200	f	2.27
FP318.8A	250-200-10	200-200-200	h	3.54
FP318.8A	250-200-50	200-200-200	h	3.74
FP318.85A	250-200-50	200-200-200	l	3.36
FP318.85A				
200				
WP319.6A	60-5-100	250-250-50	b	1.82
FP319.5A	90-90-20	250-250-50	f	2.62
WP319.7	60-5-50	250-250-200	f	2.18
FP319.8A	20-20-20	250-250-250	m	1.66
FP320	40-20-20	250-250-250	f	2.05
FP321.5	40-20-20	250-250-250	b	1.66
FP321.5A	40-40-40	250-250-250	c	2.01
FP323A	80-80-60	250-250-250	f	2.81
FP326A	100-60-20	300-150-25	f	2.51
PWP-				
FP326.16A	10-20-10	300-150-150	l	1.54
FP326.2A	20-150-80	300-150-150	f	2.43
FP326.3A	100-200-60	300-150-150	h	3.13
WP326.35A	20-100-100	300-200-50	d	2.04
FP326.61	80-200-10	300-200-300	h	2.38
FP326.4A	60-30-30	300-250-250	f	2.36
FP335A	100-60-20	300-250-250	g	2.78
FP336A	200-60-20	300-250-250	h	3.51
FP336.5A	60-10-25	300-300-25	f	2.36
FP336.5A	150-10-25	300-300-25	g	2.78
FP326.54A	20-20-50	300-300-50	b	1.70
FP326.6A	100-10-60	300-300-50	f	2.46
FP326.7A	140-100-60	300-300-50	h	3.43
WP326.71A	140-100-100	300-300-50	h	3.48

Mallory No.	Capacity, $\mu$ F	WVDC	*	Net Each
FP326.74A	140-10-200	300-300-150	h	\$3.30
WP326.63A	30-10-20	300-300-250	b	1.68
WP326.6A	60-5-20	300-300-250	c	1.91
FP326.62A	80-40-40	300-300-300	g	2.76
FP326.65A	100-60-40	300-300-300	g	2.41
FP326.67A	120-50-40	300-300-300	h	3.14
FP326.75A	150-30-30	300-300-300	h	3.14
PWP-				
FP326.77A	150-30-100	300-300-300	j	3.72
FP326.78A	140-100-20	300-300-300	j	3.51
WP326.8A	4-100-40	350-25-25	i	1.50
WP327.2A	20-50-100	350-100-75	c	1.81
FP327.3A	60-200-30	350-150-150	g	2.84
FP327.35	10-150-200	350-200-75	f	2.65
FP327.4A	125-5-100	350-200-75	f	2.93
FP327.5A	10-40-40	350-200-200	b	1.75
FP331A	30-30-20	350-300-25	c	1.85
FP327.89A	160-40-20	350-300-300	f	2.53
WP327.89B	40-10-30	350-300-300	i	4.18
PWP-				
FP327.95A	20-20-1000	350-350-15	f	2.69
FP328A	15-10-20	350-350-25	m	1.57
FP329.5	20-20-20	350-350-25	b	1.71
FP330A	30-20-20	350-350-25	c	1.81
FP330.13A	200-10-50	350-350-25	j	3.59
FP330.14	250-3-200	350-350-25	i	4.05
FP330.15A	10-5-30	350-350-50	l	1.49
FP330.2A	10-5-150	350-350-50	m	1.66
FP330.21A	20-5-150	350-350-50	b	1.76
FP330.23	80-40-400	350-350-50	h	3.26
FP330.22A	100-20-50	350-350-50	g	2.76
FP330.24A	150-4-30	350-350-50	j	3.04
FP330.246	150-5-100	350-350-50	j	3.19
FP330.25A	30-20-100	350-350-150	f	2.35
FP330.248A	70-40-50	350-350-150	g	2.76
FP330.24	125-20-20	350-350-150	h	3.00
FP330.29A	30-5-100	350-350-200	f	2.34
FP330.26A	100-60-20	350-350-200	h	3.16
FP330.27A	125-60-40	350-350-200	j	3.49
FP330.28A	100-60-100	350-350-200	j	3.51
FP330.3A	20-10-5	350-350-250	m	1.63
FP330.3A	10-10-60	350-350-300	f	2.25
FP330.5A	10-10-10	350-350-350	m	1.60
FP330.6A	20-20-20	350-350-350	c	1.92
FP330.7A	30-20-10	350-350-350	c	1.88
FP330.8A	40-40-40	350-350-350	g	2.74
FP330.9A	60-50-50	350-350-350	h	3.08
FP331.2	80-20-20	350-350-350	g	2.70
FP331.3A	80-60-60	350-350-350	j	3.45
FP331.6A	90-40-20	350-350-350	g	2.96
FP331.7A	100-40-5	350-350-350	g	2.92
FP331.76A	100-40-40	350-350-350	h	3.25
FP331.8A	100-60-40	350-350-350	j	3.45
FP332.4A	100-100-10	350-350-350	j	3.54
FP332.44	140-140-20	350-350-350	i	4.36
FP332.5A	40-200-60	400-200-200	j	3.22
FP332.7A	10-4-40	400-350-25	i	1.53
FP333	10-50-30	400-350-25	f	2.20
FP333.05	100-10-200	400-350-25	h	3.13
FP333.08	10-4-4	400-350-150	b	1.50
FP333.1	40-4-4	400-350-150	d	1.87
FP333.16	40-30-20	400-350-300	g	2.56
FP333.2A	80-40-100	400-400-50	j	3.24
FP333.3A	80-40-150	400-400-50	j	3.30
FP333.15	100-20-20	400-400-50	h	3.10
FP333.5A	20-10-40	400-400-350	k	2.08
FP333.6	20-20-10	400-400-350	d	1.92
FP333.7	60-30-20	400-400-350	h	2.90
FP333.8	80-20-10	400-400-350	h	2.92
FP333.85	100-10-80	400-400-350	i	3.71
FP333.86	100-40-100	400-400-350	i	4.24
FP333.88	50-30-4	400-400-400	g	2.63
FP333.89	80-60-40	400-400-400	j	3.81
FP333.9	90-10-5	400-400-400	h	2.89
FP333.95	100-30-20	400-400-400	i	3.48
WP334.6A	20-500-500	450-25-25	g	2.83
WP339.5A	10-50-100	450-150-75	c	1.80
FP341A	40-90-50	450-150-150	g	2.58
FP341.2B	10-100-200	450-200-25	d	2.12
FP341.24	10-100-100	450-200-50	d	2.03
FP341.28	10-150-100	450-200-150	g	2.68
FP341.3A	20-80-50	450-200-150	f	2.35

Mallory No.	Capacity, $\mu$ F	WVDC	*	Net Each
FP341.5A	20-60-100	450-250-25	f	\$2.30
FP341.6A	50-160-50	450-250-50	j	3.29
FP341.8A	10-80-80	450-250-250	g	2.64
FP342.2A	5-80-40	450-300-300	g	2.55
FP342.7	30-40-50	450-350-25	g	2.18
FP342.75	80-2-25	450-350-25	h	2.45
FP342.8	80-50-100	450-350-200	h	3.63
FP343.1A	15-20-20	450-350-250	i	1.83
FP343.2	50-10-160	450-350-250	j	3.33
FP343.4	20-15-15	450-350-350	j	1.89
FP343.6A	20-40-10	450-350-350	i	2.32
FP344.2	60-80-20	450-400-250	i	3.66
FP345.2	10-10-20	450-450-25	b	1.52
FP345.5	15-15-40	450-450-25	c	1.79
FP345.8	20-20-20	450-450-25	c	1.91
FP345.3A	40-20-20	450-450-25	f	2.46
FP346A	40-40-20	450-450-25	g	2.75
FP364A	80-40-100	450-450-25	j	3.37
FP365A	10-10-40	450-450-50	b	1.65
FP366A	20-10-50	450-450-50	c	1.82
FP366.5A	30-10-150	450-450-50	f	2.34
FP367.5	40-30-25	450-450-50	g	2.60
FP368B	60-40-75	450-450-50	h	3.12
FP368.3B	80-20-100	450-450-50	h	3.15
FP368.5A	80-50-50	450-450-50	j	3.51
FP368.6A	30-30-125	450-450-75	g	2.65
FP368.68A	10-4-20	450-450-150	m	1.58
FP368.9	40-30-8	450-450-150	g	2.63
FP369.1A	40-40-40	450-450-150	g	2.84
FP370A	40-10-80	450-450-200	g	2.63
FP375A	40-40-100	450-450-200	j	3.16
FP375.2A	15-10-120	450-450-300	h	2.84
FP375.6A	60-20-40	450-450-350	j	3.10
FP375.7	20-10-15	450-450-400	d	1.93
FP375.75	80-80-20	450-450-400	n	4.09
FP375.45	4-20-50	450-450-450	e	2.39
FP375.8	10-10-10	450-450-450	c	1.75
FP376.1A	15-15-10	450-450-450	d	1.89
FP376.3	20-10-10	450-450-450	d	1.89
FP376.5A	20-20-20	450-450-450	f	2.44
FP376.6	30-10-10	450-450-450	f	2.28
FP376.7A	30-30-30	450-450-450	g	2.86
FP376.8A	40-40-10	450-450-450	g	2.86
FP376.9	40-40-20	450-450-450	h	2.99
FP377.1A	40-40-40	450-450-450	h	3.28
FP377.2A	50-40-30	450-450-450	j	3.28
FP377.4A	60-10-10	450-450-450	g	2.70
FP377.6	60-30-10	450-450-450	h	2.99
FP377.7A	60-40-40	450-450-450	j	3.58
FP378	80-40-20	450-450-450	j	3.58
FP378.1	80-40-30	450-450-450	j	3.58
FP378.4	80-40-40	450-450-450	i	3.70
FP379.1A	20-50-20	475-50-25	c	1.75
FP382.1A	40-40-100	475-250-100	g	2.75
FP384	20-20-40	475-300-25	f	2.10
FP384.14A	15-100-200	475-300-150	j	3.05
FP384.16	10-4-100	475-350-50	b	1.66
FP384.2	10-4-40	475-350-300	f	2.09
FP384.35	20-10-5	475-350-350	g	1.80
FP384.5	10-45-100	475-450-50	h	2.53
FP384.7	25-40-40	50-450-475	g	2.85
FP385A	10-40-100	475-450-200	g	2.73
FP385.5A	40-80-10	475-450-450	j	3.53
FP387.1	10-10-150	475-475-50	d	1.87
FP388.1	25-10-20	475-475-50	d	1.93
FP389.1A	20-10-100	475-475-400	j	3.33
FP391.1B	20-20-60	475-475-450	j	3.11
FP394A	10-10-10	475-475-475	f	1.82
FP396A	30-30-20	475-475-475	f	2.92
FP396.2A	40-10-10	475-475-475	f	2.58
FP396.1A	40-20-20	475-475-475	f	2.92
FP396.12A	40-30-10	475-475-475	f	2.92
FP396.14B	40-30-10	475-475-475	f	3.25
FP397A	40-35-30	475-475-475	g	2.99
FP397.5	40-40-60	500-200-50	g	2.65
FP397.7	40-40-20	500-350-250	h	2.89
FP398A	10-40-40	500-450-450	g	2.91
FP399B	20-10-100	500-500-50	c	2.03
FP399.5A	40-20-20	500-500-500	j	3.12
FP399.55	40-40-20	500-500-500	j	3.51



# Metal Can Electrolytic Capacitors

Mallory No.	Capacity, $\mu$ F	WVDC	*	Net Each
FP419A	200-20-100-20	300-250-50-25	h	\$3.47
FP419.11	60-5-50-20	300-300-50-50	f	2.29
FP418.7A	140-10-10-100	300-300-150-50	g	2.99
FP419.4A	100-10-200-30	300-300-150-150	h	3.252
FP419.1A	150-20-10-250	300-300-250-50	h	3.45
FP419.2A	40-30-20-50	300-300-300-25	f	2.42
FP419.7A	60-40-20-50	300-300-300-25	f	2.63
FP419.35A	60-30-10-60	300-300-300-50	f	2.53
FP419.37A	150-30-30-150	300-300-300-50	h	3.47
PFP419.42A	20-20-20-100	300-300-300-150	f	2.50
WP419.39A	80-20-20-200	300-300-300-150	j	3.22
FP419.45A	120-40-40-10	300-300-300-250	h	3.32
FP419.53A	60-40-10-10	300-300-300-300	j	2.58
FP419.55A	150-100-10-10	300-300-300-300	j	3.66
WP419.554	150-100-30-10	300-300-300-300	j	3.86
WP419.52	150-150-30-30	300-300-300-300	j	4.38
FP419.54A	200-20-20-20	300-300-300-300	f	3.65
FP419.557	50-500-500-200	350-50-25-25	h	3.22
FP414A	15-80-40-200	350-200-200-25	f	2.63
WP419.585A	50-60-5-100	350-250-250-50	f	2.67
FP417.26	120-100-100-100	350-300-150-75	j	4.05
• FP418.1	40-100-2-50	350-300-175-50	g	3.23
FP419.59A	160-30-30-20	350-300-300-50	j	3.69
WP419.51	40-80-10-10	350-300-300-300	g	2.83
FP419.514	140-100-20-20	350-300-300-300	n	6.62
FP419.65A	160-60-10-4	350-300-300-300	j	3.76
FP419.6	40-10-100-25	350-350-25-25	f	2.30
FP419.62A	60-4-100-40	350-350-25-25	f	2.45
FP419.61	100-4-50-50	350-350-50-25	h	2.83
FP419.63A	200-10-4-20	350-350-50-25	j	3.70
FP419.635A	40-40-60-50	350-350-50-50	f	2.64
FP419.649	40-20-100-100	350-350-200-50	f	2.81
FP419.67A	100-60-60-40	350-350-200-75	j	3.55
FP419.661A	100-60-10-100	350-350-200-150	j	3.60
FP419.66A	60-40-60-20	350-350-250-150	g	3.04
FP419.82	20-10-5-10	350-350-350-25	f	2.06
FP419.885	20-20-250-50	350-350-350-25	n	4.48
FP419.84	30-10-5-200	350-350-350-25	f	2.35
FP419.86A	40-20-5-10	350-350-350-25	f	2.32
FP419.87	40-20-20-50	350-350-350-25	g	2.53
FP419.88A	40-30-15-30	350-350-350-25	f	2.52
FP419.3A	40-40-20-20	350-350-350-25	g	2.67
FP419.895	10-150-100-100	350-350-350-50	i	4.28
PFP420.17A	40-20-10-100	350-350-350-50	f	2.53
FP420.15A	70-40-10-50	350-350-350-50	g	2.89
FP420.2A	50-40-40-160	350-350-350-50	h	3.16
FP420.23A	100-10-10-20	350-350-350-50	g	2.86
FP419.89A	100-30-10-40	350-350-350-50	g	3.08
WP420.25A	100-40-4-100	350-350-350-50	h	3.20
FP420.26A	100-40-30-50	350-350-350-50	h	3.36
FP420.273	100-100-60-100	350-350-350-50	i	4.28
FP420.276	120-20-10-50	350-350-350-50	h	3.19
FP420.28A	140-20-10-100	350-350-350-50	h	3.43
FP420.29A	90-30-5-100	350-350-350-75	h	3.07
FP420.31A	100-80-10-20	350-350-350-150	j	3.56
FP420.32A	20-10-5-60	350-350-350-200	f	2.30
FP420.33A	30-10-5-100	350-350-350-200	f	2.55
FP420.35A	40-20-20-10	350-350-350-350	f	2.54
FP420.36A	40-40-30-20	350-350-350-350	g	2.95
FP420.38A	40-40-40-40	350-350-350-350	h	3.21
FP420.4A	80-60-40-20	350-350-350-350	j	3.59
• FP420.405A	100-20-10-5	350-350-350-350	g	2.96
FP420.406	150-100-50-10	350-350-350-350	i	4.60
FP420.3	100-50-25-25	350-350-350-350	h	3.16
FP420.365	150-100-20-20	350-350-350-350	n	4.40
FP420.407	80-80-4-100	400-200-150-50	j	3.24
FP420.41A	40-120-10-150	400-250-250-50	j	3.21
FP420.44A	30-40-50-200	400-300-250-150	j	3.39
FP420.43	80-80-100-100	400-350-25-25	i	3.71
FP420.438	10-4-4-20	400-350-150-25	f	1.93
PFP420.439	40-100-5-100	400-350-150-50	j	3.33
FP420.45A	40-80-100-25	400-350-200-50	j	3.45
FP420.46A	80-40-20-20	400-350-300-300	j	3.40
FP420.47	20-50-40-80	400-350-350-50	h	2.94
FP420.5A	30-60-20-100	400-350-350-50	j	3.02
FP420.53	20-5-20-20	400-400-25-25	f	2.07
FP420.54	80-50-25-25	400-400-25-25	h	3.37
FP420.56A	50-25-100-20	400-400-50-25	g	2.80
FP420.6A	80-40-100-20	400-400-50-25	h	3.40
FP420.7	100-10-30-20	400-400-50-50	h	3.15
FP420.8	20-10-10-25	400-400-100-25	f	2.14
WP420.9A	20-20-100-100	400-400-100-100	g	2.71
FP420.95	80-40-100-100	400-400-200-50	i	3.81
FP420.97	80-40-40-100	400-400-300-50	j	3.66
FP421.1	40-120-20-100	400-400-350-25	n	4.04
FP421.2A	60-40-40-10	400-400-350-50	j	3.36
FP421.3A	100-10-20-20	400-400-350-50	j	3.32
FP421.4	30-30-15-20	400-400-400-25	h	2.70
FP421.6	80-40-30-40	400-400-400-25	i	3.66
FP421.8A	40-40-40-150	400-400-400-50	j	3.44
WP421.85	40-80-10-100	400-400-400-200	i	3.79
FP421.87	80-40-30-4	400-400-400-350	i	3.66
FP421.9A	50-40-30-20	400-400-400-400	j	3.48
WP422	60-40-40-40	400-400-400-400	i	3.97
FP422.05	100-80-10-30	400-400-400-400	n	4.47
FP422.1A	20-80-20-50	450-200-200-50	f	2.48
FP422.11	20-160-50-50	450-250-75-50	j	3.12
FP422.7A	60-80-40-20	450-250-250-150	h	3.04
FP422.8	25-100-10-60	450-300-300-50	h	2.99
FP413X	40-40-40-20	450-300-300-150	h	2.95
FP422.9	10-100-20-20	450-300-300-300	h	2.92
FP423.2	80-2-25-100	450-350-25-25	h	2.76
FP423.4	10-40-100-100	450-350-250-50	h	2.96
WP423.5	10-140-100-20	450-350-300-300	i	4.07
FP424.1	10-100-10-20	450-350-350-25	h	2.92
FP424.3A	20-80-50-100	450-350-350-50	j	3.37

Mallory No.	Capacity, $\mu$ F	WVDC	*	Net Each
FP425	30-40-40-10	450-350-350-200	h	\$2.94
FP425.6	40-100-20-10	450-350-350-350	i	3.53
FP425.1A	80-10-40-30	450-400-300-300	j	3.50
FP426	20-15-20-20	450-450-25-25	f	2.25
FP426.2	80-40-100-100	450-450-25-25	i	3.66
FP426.5A	20-20-60-100	450-450-150-25	f	2.57
FP426.9A	40-40-125-125	450-450-150-25	j	3.38
FP427.5A	10-10-60-100	450-450-200-50	f	2.39
FP427.6A	35-25-20-100	450-450-200-50	g	2.78
FP427.65A	40-40-100-60	450-450-200-200	j	3.54
FP427.67	80-50-20-50	450-450-250-50	i	3.75
PFP427.69A	30-20-160-40	450-450-250-150	j	3.55
FP427.695	20-30-10-160	450-450-250-250	j	4.64
●FP427.75	80-30-40-40	450-450-350-150	i	3.79
FP427.8	20-30-4-200	450-450-350-150	i	3.65
FP427.9A	20-20-20-10	450-450-350-350	g	2.57
FP428A	40-10-35-10	450-450-350-350	g	2.86
FP428.4A	40-40-30-30	450-450-350-350	j	3.42
FP424	15-15-10-20	450-450-450-25	f	2.29
FP428.9	30-30-10-125	450-450-450-25	h	2.81
FP432A	40-10-10-250	450-450-450-25	g	2.80
FP431	40-15-10-25	450-450-450-25	g	2.66
FP430.2A	40-20-20-25	450-450-450-25	g	2.88
FP436	40-20-20-40	450-450-450-25	h	2.90
FP429	40-30-10-20	450-450-450-25	h	2.88
FP429.2A	40-40-30-100	450-450-450-25	h	3.38
FP430.6A	40-40-40-40	450-450-450-25	j	3.46
FP430.9	60-40-40-10	450-450-450-25	i	3.72
FP430.95A	60-50-5-20	450-450-450-25	j	3.37
FP430.97A	20-20-20-20	450-450-450-50	f	2.60
FP437	20-20-20-100	450-450-450-50	g	2.70
FP431.2	40-40-10-25	450-450-450-50	h	3.03
FP431.3A	40-40-10-50	450-450-450-50	h	3.06
FP431.35	40-40-20-40	450-450-450-50	h	3.18
FP431.4B	60-40-10-25	450-450-450-50	h	3.32
FP431.7B	40-40-10-100	450-450-450-100	h	3.26
FP433A	60-10-10-20	450-450-450-150	g	2.92
FP432.4A	40-40-30-10	450-450-450-200	j	3.33
FP432.8	35-35-15-25	450-450-450-250	h	3.25
FP432.9B	40-20-10-100	450-450-450-250	h	3.30
FP450.2	80-50-10-20	450-450-450-300	i	3.85
FP433.4	40-20-20-20	450-450-450-350	h	3.04
WP433.6	5-5-5-5	450-450-450-450	f	2.01
FP434	10-10-10-10	450-450-450-450	f	2.27
FP434.5	20-10-10-10	450-450-450-450	f	2.41
FP444A	20-20-20-20	450-450-450-450	g	2.86
FP444.4A	30-15-15-15	450-450-450-450	g	2.77
FP444.5	30-20-20-10	450-450-450-450	g	2.86
FP444.6A	30-30-15-10	450-450-450-450	g	2.93
FP444.8	30-30-20-20	450-450-450-450	h	3.13
FP444.9A	30-30-30-15	450-450-450-450	h	3.25
FP444.5A	40-20-20-4	450-450-450-450	h	2.92
FP444.95	40-20-20-20	450-450-450-450	h	3.13
FP445	35-35-10-5	450-450-450-450	h	2.93
FP446	40-35-10-10	450-450-450-450	h	3.06
FP447A	40-40-20-20	450-450-450-450	j	3.42
FP447.5A	40-40-30-30	450-450-450-450	j	3.71
WP447.7	40-40-40-40	450-450-450-450	j	3.98
FP448A	60-20-20-20	450-450-450-450	j	3.42
FP449	70-10-10-5	450-450-450-450	h	3.06
FP450B	80-10-10-10	450-450-450-450	h	3.29
FP450.08	80-40-20-10	450-450-450-450	i	3.84
FP450.16A	80-40-20-20	450-450-450-450	i	3.98
FP450.5	40-40-50-80	475-250-150-50	h	2.89
FP451A	10-100-10-100	475-300-300-25	g	3.13
FP451.3B	10-140-4-100	475-300-300-50	g	2.88
FP452A	20-80-20-10	475-300-300-300	f	2.21
FP452.5	10-20-100-50	475-350-25-25	g	3.03
FP453A	20-40-80-100	475-350-200-100	h	3.10
FP453.4A	10-40-80-100	475-350-300-100	f	2.31
FP453.8A	10-30-5-80	475-350-350-50	j	3.40
FP454.4A	10-130-20-10	475-350-350-350	j	3.08
FP454.2	20-60-40-10	475-350-350-350	j	2.57
FP454.6	10-40-4-100	475-400-350-50	g	3.53
FP454.8A	10-80-40-100	475-400-400-50	j	2.70
FP455.5	25-20-20-100	475-450-300-50	g	2.87
FP456A	25-20-40-100	475-450-300-50	g	2.87
FP456.5A	10-60-30-125	475-450-400-50	j	3.30
FP455	10-50-30-30	475-450-450-25	h	3.04
FP459	10-40-10-100	475-450-450-50	g	2.72
FP460A	80-4-4-4	475-450-450-450	h	3.24
FP460.5A	50-40-4-40	475-475-150-25	g	3.28
FP461A	15-15-80-40	475-475-300-50	g	2.85
FP463A	50-30-20-20	475-475-300-300	j	3.36
FP464.9A	40-10-4-40	475-475-350-300	g	2.90
●FP470	80-80-4-4	475-475-450-450	n	4.49
FP472A	80-4-4-200	475-475-475-25	h	3.44
FP474	10-10-10-10	475-475-475-475	f	2.37
FP474.5A	20-20-10-10	475-475-475-475	f	2.71
FP475A	20-20-20-20	475-475-475-475	g	3.05
FP475.5A	40-10-10-10	475-475-475-475	g	2.89
FP476A	40-20-10-10	475-475-475-475	g	3.05
FP485	10-20-10-4	500-300-300-300	f	2.17
FP490A	30-10-150-30	500-450-50-50	f	2.69
FP495B	40-40-8-8	500-500-500-500	f	3.57



# Tubular Electrolytic Capacitors



Metal tubulars with insulating sleeve. Use etched cathode construction for maximum reliability. **TC, TCN** are single section with 3" tinned leads except (\*) 2" leads; **TCD, TCT** have 7" insulated leads; **TCS** has solder lugs. Sizes .89" dia. and up have mtg. straps. **Temp. Range:** -20° C to +85° C except (\*) rated at +65° C. **Tolerance:** -10%, +100% up to 350 WVDC; -10%, +50% 450 WVDC and up.

## TC SINGLE SECTION

Mallory No.	Cap., $\mu$ F	WV DC	Size, in. Dia. x Lg.	Net Each
TC304A*	200	3	.39 x .81	\$0.76
TC305A*	500	3	.39 x 1.44	.90
TC310A*	1000	3	.64 x 1.13	1.05
TC602	250	6	.39 x 1.06	.82
TC605A*	500	6	.42 x 1.56	.92
TC610A*	1000	6	.64 x 1.38	1.08
TC615*	2000	6	.77 x 1.63	1.38
TC1205*	500	12	.64 x 1.13	1.02
TC1210*	1000	12	.64 x 1.88	1.35
TC1215*	1500	12	.77 x 1.63	1.40
TC1220*	2000	12	.77 x 2.13	1.62
TC1502A*	200	15	.39 x 1.44	.90
TC15025*	250	15	.52 x 1.38	.97
TC1505A*	500	15	.64 x 1.38	1.05
TC1501A*	1000	15	.77 x 1.63	1.38
TC15020A*	2000	15	.89 x 1.88	1.65
TC1530*	3000	15	.89 x 2.13	2.40
TC1540*	4000	15	.89 x 2.75	2.75
TC1550*	5000	15	1.02 x 2.75	3.05
TC22A*	10	25	.28 x .69	.60
TC26A*	25	25	.32 x .81	.60
TC29A*	50	25	.39 x .94	.67
TC2501A*	100	25	.39 x 1.44	.80
TC25015A*	150	25	.42 x 1.69	.87
TC25025*	250	25	.64 x 1.38	1.02
TC2505B	500	25	.77 x 1.63	1.35
TC2510*	1000	25	.89 x 1.88	1.98
TC2515*	1500	25	.89 x 2.13	2.35
TC2520*	2000	25	1.02 x 2.75	2.75
TC31*	2	50	.28 x .69	.54
TC302*	5	50	.28 x .69	.54
TC30A*	10	50	.32 x .81	.60
TC32A*	10	50	.32 x .81	.60
TC32A*	25	50	.39 x .94	.64
TC35A*	50	50	.39 x 1.44	.72
TC3501A*	100	50	.64 x 1.63	.93
TC50015A*	150	50	.64 x 1.63	.93
TC50025A*	250	50	.77 x 1.63	1.00
TC50050A*	500	50	1.02 x 1.63	1.40
TC50100A*	1000	50	1.02 x 2.75	1.90
TC40A*	5	150	.32 x .81	.60
TC41A*	10	150	.39 x .94	.64
TC42A*	12	150	.39 x 1.06	.67
TC43A*	16	150	.39 x 1.19	.69
TC44A*	20	150	.39 x 1.44	.72
TC45A*	30	150	.64 x 1.13	.79
TC47A*	40	150	.64 x 1.13	.82
TC48A*	50	150	.64 x 1.63	.84
TC49A*	80	150	.77 x 1.63	.95
TC492A*	100	150	.77 x 1.88	1.05
TC493A*	150	150	1.02 x 1.38	1.13
TC495A*	200	150	1.02 x 1.63	1.32
TC496A*	300	150	1.02 x 2.13	1.63
TC50XA	5	250	.52 x 1.13	.69
TC51A	10	250	.64 x 1.13	.70
TC52A	12	250	.64 x 1.13	.72
TC53A	16	250	.64 x 1.13	.75
TC54A	20	250	.64 x 1.38	.82
TC55A	30	250	.77 x 1.38	.87
TC57	40	250	.77 x 1.63	.94
TC58A	50	250	.77 x 1.63	1.02
TC59A	100	250	.89 x 2.13	1.47
TC1265A	150	300	1.02 x 2.75	1.84
TC593A	2	350	.42 x 1.06	.60
TC595	5	350	.64 x 1.13	.65
TC60A	8	350	.64 x 1.63	.72
TC61A	10	350	.64 x 1.63	.75
TC62A	12	350	.77 x 1.39	.79
TC63A	16	350	.77 x 1.63	.84
TC64A	20	350	.77 x 1.63	.87
TC65A	40	350	.77 x 2.13	1.05
TC67A	60	350	.89 x 2.75	1.17
TC68A	100	350	1.02 x 2.75	1.82
TC69A	150	350	1.02 x 3.88	2.22
TC692A	2	450	.52 x 1.38	.65
TC695A	4	450	.64 x 1.38	.69
TC697A	5	450	.64 x 1.38	.72
TC70A	8	450	.77 x 1.63	.75
TC71A	10	450	.77 x 1.63	.77
TC72A	12	450	.77 x 1.63	.82
TC73A	16	450	.89 x 1.63	.84
TC74A	20	450	.89 x 1.63	.93
TC75A	30	450	1.02 x 1.88	1.02
TC77A	40	450	1.02 x 2.13	1.08
TC78A	50	450	1.02 x 2.75	1.25
TC79A	60	450	1.02 x 2.75	1.40
TC795A	80	450	1.02 x 2.75	1.40

## METAL TUBULAR ELECTROLYTICS TC SINGLE SECTION (CONT'D)

Mallory No.	Cap., $\mu$ F	WV DC	Size, in. Dia. x Lg.	Net Each
TC80A	80	450	1.02 x 3.38	\$1.63
TC805A	100	450	1.39 x 2.88	1.82
TC807	100	450	1.02 x 3.88	1.82
TC811*	2	500	.64 x 1.13	.81
TC81A*	10	500	.77 x 1.63	.82
TC82A	10	500	.69 x 3.00	.82
TC83A*	20	500	1.02 x 1.63	.97
TC84A*	30	500	1.02 x 2.13	1.16
TC90A	4	600	.69 x 2.50	1.17
TC92A	10	600	.81 x 2.50	1.77
TC96	20	600	1.06 x 2.94	2.35

## NON-POLAR SINGLE SECTION

Mallory No.	Cap., $\mu$ F	VNP	Size, in. Dia. x Lg.	Net Each
TCN105	5	10	.69 x 1.25	\$0.68
TCN106	6	10	.56 x 1.25	.68
TCN108	8	10	.69 x 1.50	.68
TCN1025	25	10	.39 x .81	.75
TCN412	500	10	.94 x 2.00	1.20
TCN1550	500	15	.56 x 2.14	1.25
TCN415	1000	15	.56 x 3.12	1.65
TCN2516	16	25	.39 x 1.12	.94
TCN425	100	25	.39 x 1.12	.97
TCN501	1	50	.39 x 1.14	.68
TCN502	2	50	.39 x 1.14	.68
TCN503	3	50	.39 x 1.14	.68
TCN504	4	50	.39 x 1.14	.68
TCN505	5	50	.39 x 1.14	.70
TCN5010	10	50	.39 x 1.14	.72
TCN5099	100	50	.39 x 1.34	1.42
TCN510	4	150	.39 x 1.14	.70
TCN1512	12	150	.39 x 1.34	.97
TCN1540	40	150	.39 x 1.34	1.07
TCN1551	50	150	.39 x 2.14	1.19
TCN2550	4	200	.39 x 1.34	1.12
TCN3520	20	350	.39 x 2.74	1.19
TCN511	10	450	.39 x 2.14	1.24

## TCS DUAL SEPARATE SECTION

Mallory No.	Cap., $\mu$ F	WV DC†	Size, in. Dia. x Lg.	Net Each
TCS44	15-15	150	.39 x 2.39	\$1.37
TCS45	20-20	150	.39 x 2.39	1.42
TCS47	30-30	150	.39 x 2.39	1.55
TCS48	40-40	150	.39 x 2.39	1.63
TCS49	120-120	150	.39 x 3.79	2.07
TCS505	70-70	175	.39 x 3.79	2.00
TCS52	10-10	250	.39 x 2.39	1.55
TCS55	20-20	250	.39 x 2.39	1.78
TCS61	8-8	350	.39 x 2.39	1.55
TCS71	8-8	450	.39 x 2.39	1.68
TCS74	15-15	450	.39 x 2.39	1.87
TCS75	20-20	450	.39 x 3.12	2.03

†Each section.

## "SNAP-CAP" CARDBOARD TUBULAR ELECTROLYTICS



"Snap-Cap" capacitors are made to the same specifications as the "W" series and are supplied with an exclusive mounting ring which allows them to be snapped into a standard BP4 or MP4 mounting plate. Lugs hold securely and won't shake or vibrate loose, yet capacitors are easily removed if required. Furnished with color-coded insulated wire leads with stripped and tinned ends; wires 5" long. Used in equipment where temperature does not exceed 65° C. **Tolerance:** -10%, +100%.

Mallory No.	Cap., $\mu$ F	WVDC*	Size, in.	Net Each
CVM2316	40-40	150	1x2	\$1.23
CVM2225	50-30	150	1x2	1.10
CVM2200	80-20	150	1x2 1/2	1.28
CVM3200	20-80-20	150	1x2 1/2	1.46
CVM3300	40-30-20	150	1x2	1.39
CVM3375	50-50-20	150	1x2 1/2	1.46
CVM3325	60-40-20	150	1x2 1/2	1.46
CVM3350	80-40-20	150	1x2 1/2	1.51
CVM3210	150-20-20	150	1x3	1.64
CVM3355	150-40-20	150	1x3	1.83

\*WVDC each section.

## TCD DUAL COMMON NEGATIVE

No. TCD-	Cap., $\mu$ F	WVDC	Size, in. Dia. x Lg.	Net Each
204	250-1000	10-6	1 1/4 x 2 1/4	\$1.85
16	500-100	16-16	1 1/4 x 2 1/4	1.00
26	1000-1500	20-20	1 1/4 x 3	2.72
26	25-25	25-25	1 1/4 x 1 3/8	1.00
N201†	130-130	25-25	1 1/4 x 1 3/8	2.15
40	10-10	100-100	1 1/4 x 1 3/8	1.00
43	10-30	150-150	1 1/4 x 1 3/8	1.05
45	20-20	150-150	1 1/4 x 1 3/4	1.05
508	130-20	150-150	1 1/4 x 2 7/8	1.59
47	30-30	150-150	1 1/4 x 1 7/8	1.09
485	40-20	150-150	1 1/4 x 2 1/8	1.09
475	40-30	150-150	1 1/4 x 2 1/8	1.12
48	40-40	150-150	1 1/4 x 2 1/8	1.17
497	50-30	150-150	1 1/4 x 2 1/8	1.27
49	50-50	150-150	1 1/4 x 2 1/8	1.20
4975	60-20	150-150	1 1/4 x 1 7/8	1.34
498	80-40	150-150	1 1/4 x 2 3/8	1.42
2155	80-50	150-150	1 1/4 x 2 3/8	1.92
46	100-100	200-200	1 1/4 x 2 3/8	1.12
2165	30-20	200-200	1 1/4 x 2 3/8	1.24
2163	30-30	200-200	1 1/4 x 2 3/8	1.49
2174	50-75	250-50	1 1/4 x 2 3/8	2.15
2173	100-150	250-50	1 1/4 x 1 7/8	1.09
52	8-8	250-250	1 1/4 x 2	1.07
55	10-10	250-250	1 1/4 x 2	1.12
2274	20-20	250-300	1 1/4 x 3 1/8	1.84
58	40-40	300-300	1 1/4 x 4	1.94
62	80-40	300-300	1 1/4 x 4	2.12
65	10-10	350-350	1 1/4 x 2	1.44
68	20-20	350-350	1 1/4 x 2 3/8	1.40
2297	30-50	350-350	1 1/4 x 3 3/8	1.84
2302	40-50	450-50	1 1/4 x 4	2.09
71	30-60	450-50	1 1/4 x 2 1/8	1.17
72	8-8	450-450	1 1/4 x 2	1.24
74	10-10	450-450	1 1/4 x 2	1.35
745	15-15	450-450	1 1/4 x 3 1/8	1.34
75	20-20	450-450	1 1/4 x 3 1/8	1.50
77	30-30	450-450	1 1/4 x 4	1.95
78	40-40	450-450	1 1/4 x 4 1/8	2.24

†Non-polar.

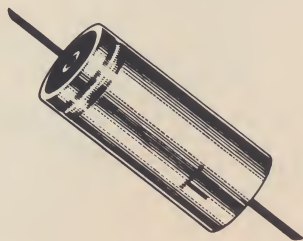
## TCT TRIPLE COMMON NEGATIVE

No. TCT-	Cap., μF	Volts	Size, in. Dia. x L.	Net Each
3053	20-20-20	150-150-25	1 1/4x2 3/8	\$1.74
3055	30-30-20	150-150-25	1 1/4x2 1/4	1.89
3094	50-30-200	150-150-25	1 1/4x2 7/8	2.02
3109	20-10-10	150-150-150	1 1/4x1 3/4	1.70
3112	20-20-20	150-150-150	1 1/4x1 7/8	1.77
3113	30-30-30	150-150-150	1 1/4x2 3/8	1.87
3114	40-20-20	150-150-150	1 1/4x2 1/4	1.80
3105	40-30-20	150-150-150	1 1/4x1 7/8	1.87
3116	40-40-20	150-150-150	1 1/4x2 3/8	1.87
3115	40-40-40	150-150-150	1 1/4x2 3/8	1.92
3107	50-30-20	150-150-150	1 1/4x2 3/8	1.89
3110	60-30-10	150-150-150	1 1/4x2	1.89
3119	60-50-20	150-150-150	1 1/4x2 3/8	1.94
3117	80-40-20	150-150-150	1 1/4x2 7/8	1.98
3118	80-50-50	150-150-150	1 1/4x4	2.10
3120	80-80-20	150-150-150	1 1/4x3	2.10
3285	40-30-40	350-250-150	1 1/4x4	2.66
3405	30-50-100	450-150-25	1 1/4x4	2.57
3432	30-30-30	450-350-250	1 1/4x4	2.76
3764	40-20-10	450-450-450	1 1/4x4	2.64



# Tubular Electrolytic Capacitors

## TT TINY TUBULAR ALUMINUM ELECTROLYTIC CAPACITORS

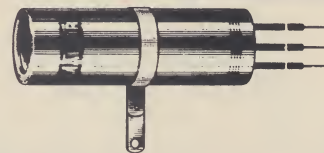


Mallory TT capacitors are made from very high purity aluminum foil, deep-etched to provide maximum capacity per unit of volume. Etched cathode construction assures long, hum-free operation. Utilize all-welded construction; exhibit exceptionally low DCL and ESR. Supplied in aluminum case with insulating sleeve; wire leads 2" lg. ( $\pm 1/4"$ ). **Temperature Range:**  $-55^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$ , 3 to 100-volt units;  $-30^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$ , all others. **Tolerance:**  $-10\%$ ,  $+150\%$ , 1-50 WVDC;  $-10\%$ ,  $+100\%$ , 60 WVDC and up.

Mallory No.	Cap., $\mu\text{F}$	WV DC	Size, In.* Dia. x L.	Net Each
TT3X1	1	3	$1/4 \times 5/8$	<b>\$0.51</b>
TT3X5	5	3	$1/4 \times 5/8$	<b>.51</b>
TT3X6	6	3	$1/4 \times 5/8$	<b>.51</b>
TT3X8	8	3	$1/4 \times 5/8$	<b>.51</b>
TT3X20	20	3	$1/4 \times 5/8$	<b>.51</b>
TT3X25	25	3	$1/4 \times 5/8$	<b>.51</b>
TT3X40	40	3	$1/4 \times 5/8$	<b>.72</b>
TT3X50	50	3	$1/4 \times 5/8$	<b>.74</b>
TT3X75	75	3	$1/4 \times 3/4$	<b>.75</b>
TT3X100	100	3	$3/8 \times 5/8$	<b>.81</b>
TT3X110	110	3	$3/8 \times 5/8$	<b>.81</b>
TT3X150	150	3	$3/8 \times 3/4$	<b>.81</b>
TT3X200	200	3	$3/8 \times 3/4$	<b>.81</b>
TT3X250	250	3	$3/8 \times 7/8$	<b>.81</b>
TT3X300	300	3	$3/8 \times 1$	<b>.87</b>
TT3X400	400	3	$3/8 \times 1 1/8$	<b>.93</b>
TT3X500	500	3	$3/8 \times 1 3/8$	<b>.99</b>
TT6X1	1	6	$1/4 \times 5/8$	<b>.54</b>
TT6X2	2	6	$1/4 \times 5/8$	<b>.54</b>
TT6X3	3	6	$1/4 \times 5/8$	<b>.54</b>
TT6X4	4	6	$1/4 \times 5/8$	<b>.54</b>
TT6X5	5	6	$1/4 \times 5/8$	<b>.54</b>
TT6X6	6	6	$1/4 \times 5/8$	<b>.54</b>
TT6X8	8	6	$1/4 \times 5/8$	<b>.54</b>
TT6X10	10	6	$1/4 \times 5/8$	<b>.54</b>
TT6X15	15	6	$1/4 \times 5/8$	<b>.54</b>
TT6X20	20	6	$1/4 \times 5/8$	<b>.54</b>
TT6X25	25	6	$1/4 \times 5/8$	<b>.54</b>
TT6X30	30	6	$1/4 \times 5/8$	<b>.57</b>
TT6X35	35	6	$1/4 \times 5/8$	<b>.57</b>
TT6X40	40	6	$1/4 \times 5/8$	<b>.57</b>
TT6X50	50	6	$3/8 \times 5/8$	<b>.75</b>
TT6X60A	60	6	$3/8 \times 5/8$	<b>.75</b>
TT6X75	75	6	$3/8 \times 5/8$	<b>.81</b>
TT6X80	80	6	$3/8 \times 3/4$	<b>.81</b>
TT6X100	100	6	$3/8 \times 3/4$	<b>.81</b>
TT6X150	150	6	$3/8 \times 3/4$	<b>.81</b>
TT6X200	200	6	$3/8 \times 7/8$	<b>.84</b>
TT6X250	250	6	$3/8 \times 1$	<b>.87</b>
TT6X300	300	6	$3/8 \times 1$	<b>.93</b>
TT10X2	2	10	$1/4 \times 5/8$	<b>.57</b>
TT10X6	6	10	$1/4 \times 5/8$	<b>.57</b>
TT10X10	10	10	$1/4 \times 5/8$	<b>.57</b>
TT10X15	15	10	$1/4 \times 5/8$	<b>.57</b>
TT10X25	25	10	$1/4 \times 5/8$	<b>.75</b>
TT10X30	30	10	$3/8 \times 5/8$	<b>.81</b>
TT10X40	40	10	$1/4 \times 3/4$	<b>.81</b>
TT10X50	50	10	$3/8 \times 5/8$	<b>.81</b>
TT10X60	60	10	$3/8 \times 5/8$	<b>.81</b>
TT10X100	100	10	$3/8 \times 3/4$	<b>.81</b>
TT10X200	200	10	$3/8 \times 1$	<b>.96</b>
TT12X1	1	12	$1/4 \times 5/8$	<b>.57</b>
TT12X2	2	12	$1/4 \times 5/8$	<b>.57</b>
TT12X3	3	12	$1/4 \times 5/8$	<b>.57</b>
TT12X4	4	12	$1/4 \times 5/8$	<b>.57</b>
TT12X5	5	12	$1/4 \times 5/8$	<b>.57</b>
TT12X6	6	12	$1/4 \times 5/8$	<b>.57</b>
TT12X8	8	12	$1/4 \times 5/8$	<b>.57</b>
TT12X10	10	12	$1/4 \times 5/8$	<b>.57</b>
TT12X15	15	12	$1/4 \times 5/8$	<b>.57</b>
TT12X20	20	12	$1/4 \times 5/8$	<b>.57</b>
TT12X25	25	12	$1/4 \times 3/4$	<b>.75</b>
TT12X35	35	12	$3/8 \times 5/8$	<b>.75</b>
TT12X50	50	12	$3/8 \times 5/8$	<b>.81</b>
TT12X75	75	12	$3/8 \times 3/4$	<b>.81</b>
TT12X100	100	12	$3/8 \times 7/8$	<b>.81</b>
TT12X150	150	12	$3/8 \times 1$	<b>.93</b>
TT12X200	200	12	$3/8 \times 1 1/8$	<b>.96</b>
TT12X250	250	12	$3/8 \times 1 3/8$	<b>.96</b>

\*Size shown for plain case. For insul. sleeve add .010" dia. x  $1/8"$  l.

## CARDBOARD TUBULAR WAX-FILLED ELECTROLYTICS



Very high quality aluminum electrolytics in wax-filled cardboard tubes with mounting straps and 5" insulated leads. All values have exclusive Mallory safety vent and feature all-welded internal construction. **Temperature Range:**  $-20^{\circ}\text{C}$  to  $+65^{\circ}\text{C}$ . **Tolerance:**  $-10\%$ ,  $+250\%$  up to 50 WVDC;  $-10\%$ ,  $+100\%$  51 to 350 WVDC;  $-10\%$ ,  $+50\%$  450 WVDC and up. WQ240 is special double ended design.

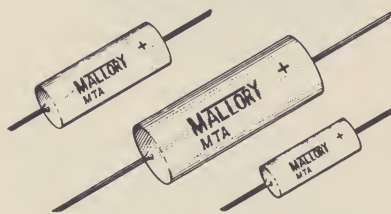
Mail. No.	Cap., $\mu\text{F}$ at WVDC	Size, In. D. x L.	Net Each
WS342	200 at 200	$1 1/8 \times 2 7/8$	<b>\$1.84</b>
WS427	140 at 300	$1 1/4 \times 2 7/8$	<b>2.05</b>
WS560	150 at 400	$1 1/4 \times 4 3/8$	<b>2.64</b>
WS730	100 at 450	$1 3/8 \times 3 3/8$	<b>2.63</b>
WD210	50-30 at 150	$3/4 \times 2 3/8$	<b>1.24</b>
WD215	50-50 at 150	$1 1/8 \times 2 3/8$	<b>1.30</b>
WD220	70-30 at 150	$3/4 \times 2 3/8$	<b>1.30</b>
WD235	100-50 at 150	$1 \times 2 3/8$	<b>1.56</b>
WD270	120-120 at 150	$1 \times 2 7/8$	<b>1.87</b>
WD251	250-50 at 160	$1 3/8 \times 2 5/8$	<b>2.18</b>
WD340	60-125 at 200-50	$1 1/8 \times 2 3/8$	<b>1.54</b>
WD345	5-200 at 200-200	$1 1/8 \times 3 1/8$	<b>2.05</b>
WD355	250-120 at 200-200	$1 3/8 \times 3 1/8$	<b>2.92</b>
WD410	200-100 at 300-50	$1 3/8 \times 3 3/8$	<b>2.93</b>
WD446	100-150 at 350-300	$1 3/8 \times 3 3/8$	<b>3.40</b>
WD448	150-100 at 350-300	$1 3/8 \times 4 3/8$	<b>3.49</b>
WD450	5-140 at 350-350	$1 1/8 \times 4 3/8$	<b>2.54</b>
WT201	60-40-250 at 150-150-15	$1 \times 2 3/8$	<b>1.72</b>
WT240	60-60-100 at 150-150-25	$1 \times 2 3/8$	<b>1.72</b>
WT312	250-120-50 at 160-160-100	$1 3/8 \times 3 3/8$	<b>2.31</b>
WT217	40-40-20 at 150	$1 \times 2 7/8$	<b>1.58</b>
WT316	150-150-150 at 150	$1 1/4 \times 3 3/8$	<b>2.81</b>
WT350	150-150-20 at 200	$1 1/8 \times 4 3/8$	<b>2.78</b>
WT360	200-250-10 at 200	$1 3/8 \times 3 3/8$	<b>3.58</b>
WT430	100-60-100 at 300-300-50	$1 1/4 \times 3 3/8$	<b>2.74</b>
WT434	120-40-100 at 300-300-50	$1 1/4 \times 3 3/8$	<b>2.74</b>
WT407	70-50-30 at 300-300-250	$1 1/4 \times 3 3/8$	<b>2.41</b>
WT447	10-100-200 at 350-150-150	$1 3/8 \times 2 3/8$	<b>2.47</b>
WT449	140-5-200 at 350-300-200	$1 3/8 \times 4 3/8$	<b>3.60</b>
WT455	100-40-40 at 350-350-250	$1 1/8 \times 4 3/8$	<b>2.90</b>
WT458	60-60-60 at 350-350-300	$1 1/4 \times 4 3/8$	<b>2.93</b>
WT460	60-60-4 at 350	$1 1/4 \times 3 3/8$	<b>2.49</b>
WT565	100-75-70 at 400-400-25	$1 1/2 \times 4 3/8$	<b>3.41</b>
WT630	5-40-80 at 450-400-400	$1 3/8 \times 4 3/8$	<b>2.72</b>
WT700	10-10-150 at 450-450-50	$1 1/8 \times 2 5/8$	<b>1.85</b>
WQ209	60-40-20-200 at 150-150-150-10	$1 \times 2 3/8$	<b>1.93</b>
WQ215	40-20-20-100 at 150-150-150-25	$1 \times 2$	<b>1.77</b>
WQ230	40-40-20-20 at 150-150-150-25	$1 3/8 \times 2 7/8$	<b>1.70</b>
WQ250	60-40-40-20 at 150-150-150-25	$1 \times 2 3/8$	<b>1.91</b>
WQ240	10-10-40-200 at 150-150-150-35	$1 1/8 \times 2$	<b>1.74</b>
WQ290	60-50-40-20 at 150	$7/8 \times 2 7/8$	<b>1.90</b>
WQ401	140-4-50-4 at 300-300-150-150	$1 3/8 \times 3 3/8$	<b>2.88</b>
WQ405	120-40-40-10 at 300-300-300-250	$1 3/8 \times 3 3/8$	<b>3.18</b>
WQ511	140-5-200-100 at 350-300-200-150	$1 3/8 \times 4 3/8$	<b>4.27</b>
WQ505	140-5-200-30 at 350-300-200-200	$1 1/2 \times 4 3/8$	<b>4.06</b>
WQ515	40-20-20-100 at 350-300-250-50	$1 1/4 \times 2 5/8$	<b>2.34</b>
WQ525	50-40-20-50 at 350-350-350-50	$1 1/4 \times 3 3/8$	<b>2.59</b>
WQ520	150-100-20-100 at 350-350-350-50	$1 1/2 \times 4 3/8$	<b>4.33</b>
WQ635	25-100-10-50 at 450-300-300-50	$1 3/8 \times 3 3/8$	<b>2.98</b>
WQ640	10-80-40-40 at 450-300-300-300	$1 1/4 \times 4 3/8$	<b>2.94</b>
WQ650	10-40-80-100 at 450-300-400-50	$1 1/4 \times 4 3/8$	<b>3.07</b>
WQ775	10-20-20-40 at 450	$1 1/4 \times 3 3/8$	<b>3.02</b>
WQ795	20-20-40-40 at 450	$1 1/4 \times 4 3/8$	<b>3.53</b>
WV404	40-20-20-20-50 at 300-300-300-300-50	$1 1/4 \times 3 3/8$	<b>2.58</b>

Prices and specifications subject to change without notice.



# Molded Electrolytic Capacitors

## MTA MOLDED TUBULAR ALUMINUM ELECTROLYTIC CAPACITORS



High quality electrolytics, precision molded by an exclusive new technique. Precision molding assures case uniformity and quality unattainable by conventional tube-and-fill methods. Polypropylene case material provides extreme humidity protection; actually excludes water molecules while allowing for molecular venting of the electrolyte if necessary. All-welded construction. **Temperature Range:** -20° C to +65° C. **Tolerance:** -10%, +100%. Ask for Bulletin 9-372 for complete specifications.

### MTA STOCK VALUES

Mallory No.	Cap., $\mu$ F	Max. WVDC	Surge VDC	Size $\uparrow$	Net Each
• MTA1000F1	1000	1	2	F	\$0.57
MTA60D3	60	3	4	D	.36
MTA175E3	175	3	4	E	.45
MTA600F3	600	3	4	F	.45
• MTA750F3	750	3	4	F	.57
MTA50D6	50	6	8	D	.36
MTA125E6	125	6	8	E	.39
MTA150E6	150	6	8	E	.39
MTA450F6	450	6	8	F	.51
MTA500F6	500	6	8	F	.51
MTA40D10	40	10	12	D	.36
MTA75E10	75	10	12	E	.39
MTA100E10	100	10	12	E	.39
MTA200F10	200	10	12	F	.54
MTA400F10	400	10	12	F	.54
MTA30D15	30	15	18	D	.36
MTA35D15	35	15	18	D	.36
MTA50E15	50	15	18	E	.39
MTA80E15	80	15	18	E	.39
MTA90E15	90	15	18	E	.39
MTA100E15	100	15	18	E	.39
MTA100E15	100	15	18	F	.51
MTA250F15	250	15	18	F	.63
MTA300F15	300	15	18	F	.63
MTA350F15	350	15	18	F	.63
MTA25D20	25	20	25	D	.36
MTA60E20	60	20	25	E	.39
MTA70E20	70	20	25	E	.39
MTA250F20	250	20	25	F	.63
MTA50E25	50	25	30	E	.39
MTA175F25	175	25	30	F	.54
MTA200F25	200	25	30	F	.54
MTA20D30	20	30	35	D	.36
MTA40E30	40	30	35	E	.39
MTA9D35	9	35	40	D	.36
MTA10D35	10	35	40	D	.36
MTA15D35	15	35	40	D	.36
MTA25E35	25	35	40	E	.39
MTA30E35	30	35	40	E	.39
MTA35E35	35	35	40	E	.39
MTA90F35	90	35	40	F	.51
MTA100F35	100	35	40	F	.51
MTA125F35	125	35	40	F	.54
MTA150F35	150	35	40	F	.63
MTA1D50	1	50	60	D	.36
MTA2D50	2	50	60	D	.36
MTA3D50	3	50	60	D	.36
MTA4D50	4	50	60	D	.36
MTA5D50	5	50	60	D	.36
MTA6D50	6	50	60	D	.36
MTA7D50	7	50	60	D	.36
MTA8D50	8	50	60	D	.36
MTA9E50	9	50	60	E	.39
MTA10E50	10	50	60	E	.39
MTA15E50	15	50	60	E	.39
MTA20E50	20	50	60	E	.39
MTA25F50	25	50	60	F	.45
MTA30F50	30	50	60	F	.45
MTA35F50	35	50	60	F	.45
MTA40F50	40	50	60	F	.45
MTA50F50	50	50	60	F	.51
MTA60F50	60	50	60	F	.51
MTA70F50	70	50	60	F	.51
MTA80F50	80	50	60	F	.54

### MTA CASE SIZES

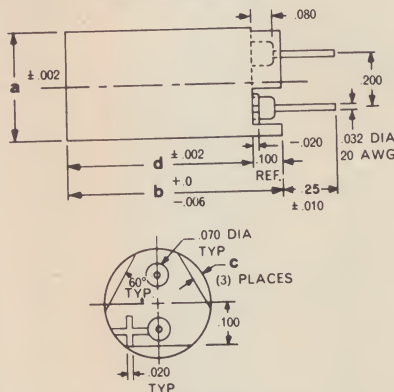
Size	Size, Inches	Leads
	Dia. x L.	
D	$\frac{5}{16}$ x $\frac{3}{4}$	2
E	$\frac{3}{8}$ x 1	2
F	$\frac{1}{2}$ x $1\frac{3}{8}$	2

## • MTV MOLDED CASE VERTICAL-MOUNT ELECTROLYTICS

### MTV STOCK VALUES

Mallory No. MTV	Cap., $\mu$ F	Max. WVDC	Surge VDC	Size $\uparrow$	Net Each
150CD3	150	3	4	CD	\$0.42
200CF3	200	3	4	CF	.48
300CK3	300	3	4	CK	.48
700DJ3	700	3	4	DJ	.56
1000DN3	1000	3	4	DN	.60
100CB6	100	6	8	CB	.42
150CF6	150	6	8	CF	.42
250CK6	250	6	8	CK	.48
300CP6	300	6	8	CP	.48
400DE6	400	6	8	DE	.48
500DJ6	500	6	8	DJ	.54
750DN6	750	6	8	DN	.60
800DN6	800	6	8	DN	.60
70CB10	70	10	12	CB	.42
100CD10	100	10	12	CD	.42
200CK10	200	10	12	CK	.48
250CP10	250	10	12	CP	.48
300DE10	300	10	12	DE	.54
400DJ10	400	10	12	DJ	.56
600DN10	600	10	12	DN	.60
50CB15	50	15	18	CB	.42
60CB15	60	15	18	CB	.42
75CD15	75	15	18	CD	.42
90CD15	90	15	18	CD	.42
100CF15	100	15	18	CF	.42
150CK15	150	15	18	CK	.48
200CP15	200	15	18	CP	.54
250DE15	250	15	18	DE	.54
400DJ15	400	15	18	DJ	.60
500DN15	500	15	18	DN	.60
30CB25	30	25	30	CB	.42
35CB25	35	25	30	CB	.42
50CD25	50	25	30	CD	.42
60CF25	60	25	30	CF	.48
75CK25	75	25	30	CK	.48
100CP25	100	25	30	CP	.48
200DJ25	200	25	30	DJ	.60
250DN25	250	25	30	DN	.60
25CB35	25	35	45	CB	.42
50CF35	50	35	45	CF	.48
90CP35	90	35	45	CP	.54
100DE35	100	35	45	DE	.54
150DJ35	150	35	45	DJ	.60
200DN35	200	35	45	DN	.60
1CB50	1	50	60	CB	.40
2CB50	2	50	60	CB	.40
3CB50	3	50	60	CB	.40
4CB50	4	50	60	CB	.40
5CB50	5	50	60	CB	.40
6CB50	6	50	60	CB	.40
8CB50	8	50	60	CB	.40
10CB50	10	50	60	CB	.42
15CD50	15	50	60	CD	.42
20CD50	20	50	60	CD	.42
25CF50	25	50	60	CF	.48
35CK50	35	50	60	CK	.48
50DE50	50	50	60	DE	.48
70DJ50	70	50	60	DJ	.54
100DN50	100	50	60	DN	.60

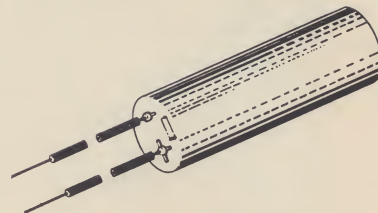
NOTE: ADD MTV PREFIX TO CAT. NO. ABOVE



### MTV CASE SIZES

Case	a	b	c	d
CB	.375	.812	.035	.710
CD	.375	.937	.035	.835
CF	.375	1.062	.035	.960
CK	.375	1.312	.035	1.210
CP	.375	1.562	.035	1.460
DE	.500	1.000	.050	.898
DJ	.500	1.250	.050	1.148
DN	.500	1.500	.050	1.398

## ANTENNA ROTATOR CAPACITORS



Exclusive, new case design of molded polypropylene permits capacitor to "breathe" while excluding moisture. Assures longer life, greater durability and better appearance. Size,  $\frac{1}{8}$ " dia. x  $2\frac{1}{2}$ " lg., all values. Insulated, stranded 4" leads.

Mallory No.	Cap., $\mu$ F at VAC	Net Each
ST75P	70-92 at 50 VAC	\$0.75
ST76P	66.2-76 at 50 VAC	.75
ST78P	58.5-78 at 50 VAC	.75
ST80P*	75-90 at 65 VAC	.90
ST100P*	100-120 at 50 VAC	1.02
ST156P*	117-156 at 50 VAC	.90
ST240P	210-240 at 50 VAC	1.29
ST290P	210-290 at 50 VAC	1.29

\*With metal strap.

## MINIATURE PHENOLIC CASE ELECTROLYTICS



Miniature electrolytics for portable radio and television applications. Enclosed in phenolic case with epoxy end seals. PET series are single ended with 1" leads for printed circuit use. PETA series has  $1\frac{1}{2}$ " axial leads. **Temperature Range:** -30° C to +85° C. **Tolerance:** -10%, +150%.

No. PET-	Cap., $\mu$ F	WV DC	Size, In.	Net Each
118	8	3	$\frac{3}{8}$ x $\frac{5}{8}$	\$0.82
122	15	3	$\frac{3}{8}$ x $\frac{5}{8}$	.83
130	30	3	$\frac{3}{8}$ x $\frac{3}{4}$	.83
140	40	3	$\frac{3}{8}$ x $\frac{3}{4}$	.83
180	150	3	$\frac{7}{16}$ x $1\frac{1}{16}$	.89
1210	5	6	$\frac{3}{8}$ x $\frac{5}{8}$	.82
1260	60	6	$\frac{7}{16}$ x $\frac{3}{4}$	.85
1340	10	10	$\frac{3}{8}$ x $\frac{5}{8}$	.83
1400	100	10	$\frac{1}{2}$ x $\frac{7}{8}$	.88
1500	100	12	$\frac{7}{16}$ x $1\frac{1}{8}$	.88
1535	6	15	$\frac{3}{8}$ x $\frac{5}{8}$	.83
1575	50	15	$\frac{7}{16}$ x $\frac{7}{8}$	.85
1930	2	50	$\frac{3}{8}$ x $\frac{5}{8}$	.82
1935	4	50	$\frac{3}{8}$ x $\frac{3}{4}$	.83
1960	25	50	$\frac{7}{16}$ x 1	.85
290	500-50	3-3	$\frac{1}{2}$ x $1\frac{1}{4}$	1.31
295	1000-50	3-3	$\frac{5}{8}$ x $1\frac{1}{2}$	1.53
2150	100-100	4-4	$\frac{1}{2}$ x $1\frac{3}{16}$	1.18
2290	100-40	6-3	$\frac{1}{2}$ x $\frac{7}{8}$	1.14
2320	400-200	6-6	$\frac{1}{2}$ x $1\frac{1}{2}$	1.37
2320	200-20	8-8	$\frac{1}{2}$ x $1\frac{1}{2}$	1.18
2312	50-25	10-10	$\frac{1}{2}$ x $\frac{3}{4}$	1.12
2365C*	50-50	10-10	$\frac{1}{2}$ x 1	1.13
2370	100-100-65	8-8-8	$\frac{5}{8}$ x 1	1.20
3310	65	16	$\frac{7}{16}$ x $1\frac{1}{8}$	.72
A1675	250-100	7-3	$\frac{1}{2}$ x $1\frac{3}{8}$	1.27
A2300	80-50	10-10	$\frac{1}{2}$ x $1\frac{1}{4}$	1.08
A2385	100-40	10-3	$\frac{1}{2}$ x $1\frac{1}{8}$	1.58

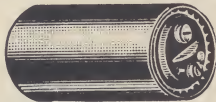
\*Uses common positive construction.

REQUEST "TECH-NOTES"  
ON CROSS REFERENCE  
OF MTV TO PET  
CAPACITORS



# Electrolytic Capacitors

## HIGH CAPACITY DRY ELECTROLYTICS



HC and NP capacitors are furnished in heavy-duty molded phenolic cases with integral safety vent. HC types are polarized; NP types are non-polarized. **Temp. Range:** -20° C to +85° C. **Tolerance:** Type HC—0-50 WVDC, -10%, +150%; 51-350 WVDC, -10%, +100%; 351 WVDC up, -10%, +50%. Type NP—±25%, all units.

### POLARIZED TYPE HC

Mallory No.	Cap., $\mu$ F	WV DC	* Size	Net Each
HC1020A	2,000	10	1	\$ 3.36
HC1040A	4,000	10	2	4.60
HC1060A	6,000	10	8	5.20
HC1080	8,000	10	5	6.00
HC10100	10,000	10†	7	7.82
HC10120	12,000	10	7	7.14
HC10150	15,000	10	7	7.67
HC1520A	2,000	15	1	3.47
HC1540A	4,000	15	3	5.37
HC1560A	6,000	15	4	5.62
HC1580	8,000	15	7	6.62
HC15100	10,000	15	7	7.14
HC2050-50	2x5,000	20	7	8.00
HC2060	6,000	20	7	6.60
HC2060A	6,000	20†	5	6.11
HC20250	25,000	20	9	12.88
HC2510A	1,000	25	1	3.19
HC2520A	2,000	25	2	4.15
HC2530	3,000	25	4	4.88
HC2540A	4,000	25	4	5.58
HC2550	5,000	25	7	6.30
HC4040	4,000	40	7	7.54
HC4040A	4,000	40	5	6.98
HC4060	6,000	40	7	7.91
HC5005	500	50	2	3.60
HC5005A	500	50	1	3.33
HC5010A	1,000	50	2	4.25
HC5020A	2,000	50	4	5.06
HC5030	3,000	50	7	7.00
HC5040	4,000	50	7	7.32
HC8005	500	80	2	3.85
HC8010	1,000	80	4	5.34
HC8020	2,000	80	7	6.62
HC10005	500	100	2	4.20
HC10010	1,000	100	5	5.86
HC10015	1,500	100	7	6.44
HC15005	500	150	4	5.09
HC15010	1,000	150	7	6.89
HC15010A	1,000	150	5	6.44
HC20002	200	200	4	4.08
HC20005	500	200	7	5.97
HC20005A	500	200	4	5.53
HC25001	100	250	2	4.59
HC25002	200	250	4	4.88
HC25003	300	250	5	5.37
HC25004	400	250	7	5.64
HC35001	100	350	4	4.88
HC35002	200	350	5	5.93
HC35003	300	350	7	6.97
HC45001	100	450	4	5.97
HC45002	200	450	7	7.47
HC45003	300	450	7	8.47

### NON-POLARIZED TYPE NP

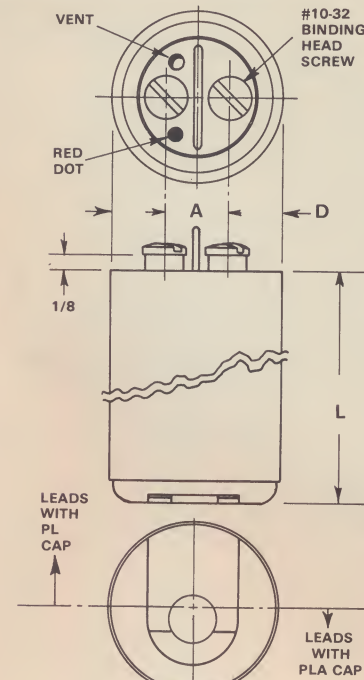
Mallory No.	Cap., $\mu$ F	WV DC	* Size	Net Each
NP0340	2,000	25	7	\$5.43
NP0555	500	50	5	4.38
NP1225A	200	125	2	4.04
NP1235A	300	125	4	4.87
NP1245	400	125	7	5.69
NP1255A	500	125	5	6.30
NP2514	100	250	5	5.95
NP2520	150	250	5	6.15
NP2525	200	250	7	6.34
NP3003A	15	300	1	2.87
NP3006	30	300	2	3.85
NP3008	50	300	2	5.25
NP3014A	100	300	4	6.13
NP3020	150	300	7	6.56
NP3025	200	300	7	7.00
NP4503	30	450	2	4.90
NP4505	50	450	4	6.30
NP4510	100	450	7	7.70

†Semi-polarized.

### \*HC AND NP CASE SIZES

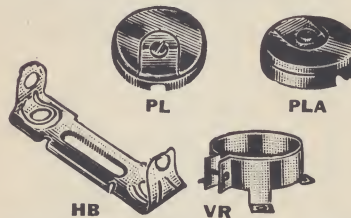
Code	Size, In. Dia. x Lg.	Use Hardware No. for
1	1 1/16 x 2 3/4	PL3, PLA3 HB2 VR3
2	1 1/8 x 3 3/8	PL3, PLA3 HB4 VR3
3	1 1/8 x 4 3/8	PL3, PLA3 HB8 VR3
4	1 1/4 x 3 3/8	PL6, PLA6 HB4 VR6
5	1 1/4 x 4 3/8	PL6, PLA6 HB8 VR6
6	2 1/8 x 3 3/8	PL8, PLA8 HB4 VR8
7	2 1/8 x 4 3/8	PL8, PLA8 HB8 VR8
8	1 1/2 x 4 1/8	VR4
9	3 x 4 1/8	VR12

## HC-NP DATA & DIMENSIONS



CASE CODE	DIMEN. — INCHES		
	D	L	A
1	1 1/16	2 3/8	1/2
2	1 1/8	3 3/8	1/2
3	1 1/8	4 3/8	1/2
4	1 1/4	3 3/8	1/2
5	1 1/4	4 3/8	1/2
6	2 1/4	3 3/8	1/2
7	2 1/4	4 3/8	1/2

## HC AND NP HARDWARE



Mallory No.	Description	Net Each
PL3	1 1/16" end cap—In	\$0.08
PLA3	1 1/16" end cap—Out	.08
PL6	1 1/8" end cap—In	.10
PLA6	1 1/8" end cap—Out	.10
PL8	2 1/8" end cap—In	.12
PLA8	2 1/8" end cap—Out	.12
HB2	3 1/4" horiz. bracket	.13
HB4	3 1/2" horiz. bracket	.13
HB8	4 1/2" horiz. bracket	.15

## PHOTOFLASH CAPACITORS

Especially engineered capacitors for photoflash use.

**HC45003**—300  $\mu$ F, 450 WV DC. Plastic case, 2 1/16" dia. x 4 3/8". Max. DCL (at 5 min.) 5.5 mA. Net Each. **\$8.47**

**FF45052**—525  $\mu$ F, 450 WV DC. Plastic case, 2 1/16" dia. x 4 3/8". Max. DCL (at 5 min.) 2.0 mA. Net Ea. **\$13.50**

**FP240**—Specially engineered FP capacitor for photoflash use. Dual separate section, 50  $\mu$ F at 450 WVDC each section. May be used in parallel for 100  $\mu$ F. Supplied with cardboard insulating tube. Uses standard FP mounting plate. Net Each. **\$2.31**



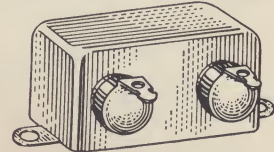
## THREADED-NECK MOUNTING SERIES



Series RS and RM have threaded neck 3/4"-16 x 1/2" with nut and washer; insulated stranded wire terminations. Conform closely to MIL-C-62, detail specifications CE41 and CE42.

Mallory No.	Cap., $\mu$ F	WV DC	Size, In. Dia. x L.	Net Each
RS207	30	250	1 x 3 1/2	\$1.23
RS212	8	450	1 1/8 x 3	1.32
RS213	8	450	1 x 2 3/4	1.32
RS214	12	450	1 1/8 x 3	1.44
RS215	12	450	1 x 2 3/4	1.44
RS217	16	450	1 1/8 x 3	1.47
RM265	8-8-8	450	1 1/8 x 4 1/4	3.00

## BATHTUB BS SERIES

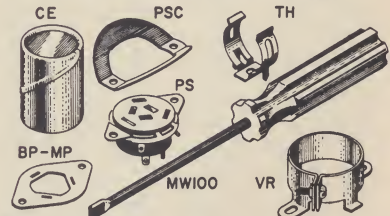


Conform to MIL-C-62 detail specification CE63. These capacitors are hermetically sealed in hot-tinned steel cases with solder lug terminations at the side. Mounts with flanges having 3/16" dia. holes.

Mall. No.	Cap. $\mu$ F	WV DC	Size, Inches H. x W. x L.	Net Each
BS26	25	25	3/4 x 1 x 1 1/4	\$2.70
BS29	50	25	3/4 x 1 x 1 1/4	2.76
BS36	25	50	3/4 x 1 x 1 1/4	2.73
BS39	50	50	3/4 x 1 x 1 1/4	2.82
BS45	20	150	7/8 x 1 x 1 1/4	2.82
BS48	40	150	1 x 1 1/4 x 1 1/4	2.91
BS62	10	300	7/8 x 1 x 1 1/4	2.85
BS65	20	300	1 1/8 x 1 1/4 x 1 1/4	2.94
BS81*	8	500	1 x 1 1/4 x 2	3.45
BS91*	8	600	1 x 1 1/4 x 2	3.51

\*Mtg. centers 2 3/8"; all others 2 1/8".

## CAPACITOR HARDWARE



**BP** (phenolic) and **MP** (metal) Series: Mounting plates for FP-WP capacitors. **PS** Series: Plug-in sockets for FP-WP. **VR** Series: Clamps fit all can types. **TH** Series: Clips for tubular and can types. **CE** Series: Cardboard insulating tubes for FP, etc. **MW100**: Mounting wrench for FP.

Mall. No.	Size, In.	Net Ea.	Mall. No.	Size, In.	Net Ea.
BP2	3/4	3c	TH17	5/8	3c
BP4	1	3c	TH19	3/4	3c
BP4A	1	3c	TH21	7/8	3c
BP6	1 1/8	3c	TH23	1	3c
MP2	3/4	8c	TH25	1 1/8	6c
MP4	1	8c			
MP6	1 1/8	8c	CE1	3/4x2	6c
PS4	1	42c	CE2	1 x 1 1/2	6c
PSC4	*	6c	CE3	1 x 2	6c
PS6	1 1/8	54c	CE4	1 x 3	6c
VR1	1	11c	CE5	1 1/2x2	6c
VR3	1 1/8	12c	CE6	1 3/4x3	6c
VR4	1 1/2	14c	CE7	1 x 2 1/2	6c
VR6	1 3/4	14c	CE8	1 x 4	9c
VR8	2	14c	CE9	1 1/2x2 1/2	6c
VR10	2 1/2	20c	CE10	1 3/4x4	9c
VR12	3	30c	CE11	1 x 3 1/2	9c
TH13	3/8	3c	CE12	1 1/2x3 1/2	9c
TH15	1/2	3c	CE13	1 x 1 1/4	6c
			CE14	3/4x1 1/2	6c

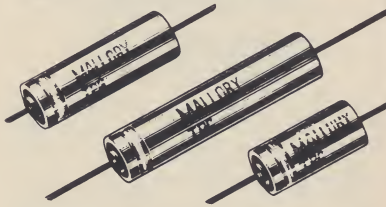
\*Retainer.

**Mallory MW100 Mounting Wrench**—Net Each. **\$1.05**



# High Reliability Capacitors

## TUBULAR PREMIUM GRADE ELECTROLYTIC CAPACITORS



TPG capacitors are premium grade electrolytics in precision tubular cases. They are especially suited to those applications which require the utmost in reliability and long-life performance (communications, computers, instruments, etc.). Internal construction is all-welded for minimum loss. DCL is exceptionally low. The TPG has a positive end seal and exclusive safety vent. Furnished with shrink-fit insulating sleeve. **Temperature Range:** -40° C to +85° C. **Tolerance:** -10%, +50%.

### SURGE VOLTAGES

WVDC	Surge VDC	WVDC	Surge VDC
3	4	30	35
6	8	50	60
10	12	75	90
15	18	100	115
25	30	150	165

### STOCK VALUES

Mallory No.	Cap., $\mu$ F	WVDC	Size *	Net Each
TPG120T3	120	3	A	\$1.81
TPG180T3	180	3	B	1.82
TPG330T3	330	3	C	1.83
TPG385T3	385	3	D	1.85
TPG450T3	450	3	E	1.86
TPG80T6	80	6	A	1.81
TPG120T6	120	6	B	1.82
TPG220T6	220	6	C	1.83
TPG260T6	260	6	D	1.85
TPG300T6	300	6	E	1.86
TPG65T10	65	10	A	1.81
TPG100T10	100	10	B	1.82
TPG175T10	175	10	C	1.83
TPG210T10	210	10	D	1.85
TPG240T10	240	10	E	1.86
TPG45T15	45	15	A	1.81
TPG70T15	70	15	B	1.82
TPG125T15	125	15	C	1.83
TPG150T15	150	15	D	1.85
TPG175T15	175	15	E	1.86
TPG30T25	30	25	A	1.81
TPG45T25	45	25	B	1.82
TPG85T25	85	25	C	1.83
TPG100T25	100	25	D	1.85
TPG115T25	115	25	E	1.86
TPG25T30	25	30	A	1.81
TPG35T30	35	30	B	1.82
TPG65T30	65	30	C	1.83
TPG75T30	75	30	D	1.85
TPG90T30	90	30	E	1.86
TPG12T50	12	50	A	1.81
TPG18T50	18	50	B	1.82
TPG35T50	35	50	C	1.83
TPG40T50	40	50	D	1.85
TPG50T50	50	50	E	1.86
TPG10T75	10	75	A	1.81
TPG15T75	15	75	B	1.82
TPG25T75	25	75	C	1.83
TPG30T75	30	75	D	1.85
TPG40T75	40	75	E	1.86
TPG7T100	7	100	A	1.81
TPG10T100	10	100	B	1.82
TPG15T100	15	100	C	1.83
TPG20T100	20	100	D	1.85
TPG30T100	30	100	E	1.86
TPG1T150	1	150	A	1.81
TPG2T150	2	150	A	1.81
TPG3T150	3	150	A	1.81
TPG4T150	4	150	A	1.81
TPG5T150	5	150	A	1.81
TPG7T150	7	150	B	1.82
TPG10T150	10	150	C	1.83
TPG15T150	15	150	D	1.85
TPG20T150	20	150	E	1.86

\*TPG CASE SIZES:  $\frac{3}{8}$ " DIA. X

Code	A	B	C	D	E
Length	$1\frac{1}{4}$ "	$1\frac{3}{4}$ "	$1\frac{1}{2}$ "	$1\frac{3}{8}$ "	$1\frac{5}{8}$ "

## HIGH RELIABILITY CAPACITOR DATA

Three distinct classes of Mallory high reliability aluminum electrolytic capacitors are available. These include two types of Computer Grade and the Tubular Premium Grade. All three types are manufactured to extremely rigid standards from the purest aluminum plates. Electrolytes are carefully formulated to ensure optimum performance under rated conditions.

The TPG and CG Computer Grade types are rated for operation at a continuous +85° C and at full rated voltage. Normal operating life under these conditions should exceed 10 years. This life may be extended by derating voltage or lowering operating temperature. Complete operating parameters are shown in the Technical Data Bulletins. Ask for Form 4-67 (TPG) or 4-64 (CG).

CGS types shown on page 15 are rated for operation at 65° C. As a result, the rated capacitance for a given can size is substantially higher than the CG equivalent. Life expectancy of the CGS is the same as for the CG. However, the operating temperature must not exceed 65° C except for very brief excursions.

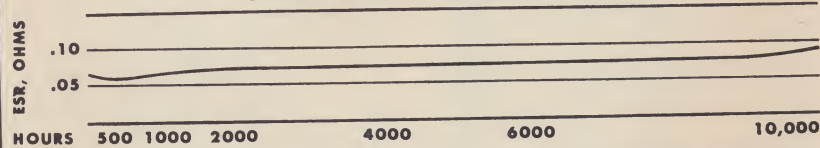
The data presented in the tables below is typical of all three types. The chart immediately below shows the effect on ESR of the CGS type after 10,000 hrs. Notice that even after continuous use the ESR does not exceed original limits.

The three bar graphs illustrate the difference in the TPG and CG of operating at temperatures reduced from the normal 85° C to only 70° C. Notice the marked effect of voltage derating on DC leakage at 85° C. The effect on dissipation factor is very slight and illustrates the fine overall qualities of the capacitors.

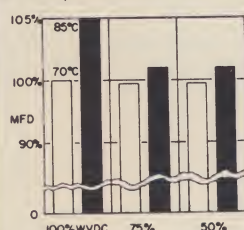
**For complete details on the CGS line, ask for Bulletin 4-80.**

CG and CGS dimensions appear below.

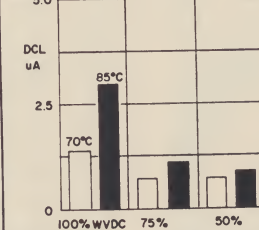
### ESR CHANGE AFTER 10,000 HOURS AT 65° C (CGS) INITIAL SPEC. LIMIT, 0.12 OHM



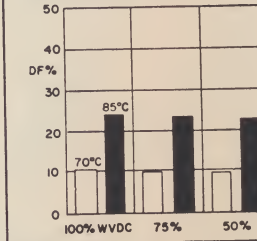
EFFECT OF OPERATING TEMPERATURE ON CAPACITANCE AFTER 10,000 HRS.



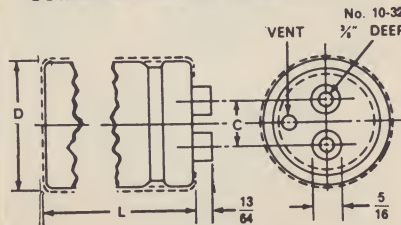
EFFECT OF OPERATING TEMPERATURE ON DC LEAKAGE AFTER 10,000 HRS



EFFECT OF OPERATING TEMPERATURE ON DISSIPATION FACTOR AFTER 10,000 HRS.



### COMPUTER GRADE DIMENSIONS



Case Code		Dimen., Inches			Mtg. Clamp
CG	CGS	D*	L*	C	
A	BB	125 <sup>3</sup> / <sub>64</sub>	29 <sup>5</sup> / <sub>64</sub>	1 <sup>1</sup> / <sub>2</sub>	VR3
B	BD	125 <sup>3</sup> / <sub>64</sub>	39 <sup>5</sup> / <sub>64</sub>	1 <sup>1</sup> / <sub>2</sub>	VR3
C	BF	125 <sup>3</sup> / <sub>64</sub>	49 <sup>5</sup> / <sub>64</sub>	1 <sup>1</sup> / <sub>2</sub>	VR3
H	...	149 <sup>3</sup> / <sub>64</sub>	39 <sup>5</sup> / <sub>64</sub>	7 <sup>1</sup> / <sub>8</sub>	VR6
J	...	149 <sup>3</sup> / <sub>64</sub>	49 <sup>5</sup> / <sub>64</sub>	7 <sup>1</sup> / <sub>8</sub>	VR6
K	DD	21 <sup>3</sup> / <sub>64</sub>	39 <sup>5</sup> / <sub>64</sub>	7 <sup>1</sup> / <sub>8</sub>	VR8
D	DF	21 <sup>3</sup> / <sub>64</sub>	49 <sup>5</sup> / <sub>64</sub>	7 <sup>1</sup> / <sub>8</sub>	VR8
I	DI	21 <sup>3</sup> / <sub>64</sub>	54 <sup>1</sup> / <sub>64</sub>	7 <sup>1</sup> / <sub>8</sub>	VR8
E	...	233 <sup>3</sup> / <sub>64</sub>	49 <sup>5</sup> / <sub>64</sub>	1 1 <sup>1</sup> / <sub>8</sub>	VR10
F	FF	31 <sup>3</sup> / <sub>64</sub>	49 <sup>5</sup> / <sub>64</sub>	1 1 <sup>1</sup> / <sub>4</sub>	VR12
F	FH	31 <sup>3</sup> / <sub>64</sub>	59 <sup>5</sup> / <sub>64</sub>	1 1 <sup>1</sup> / <sub>4</sub>	VR12
G	...	31 <sup>3</sup> / <sub>64</sub>	54 <sup>1</sup> / <sub>64</sub>	1 1 <sup>1</sup> / <sub>4</sub>	VR12
G	FJ	31 <sup>3</sup> / <sub>64</sub>	55 <sup>1</sup> / <sub>64</sub>	1 1 <sup>1</sup> / <sub>4</sub>	VR12

\*Includes insulating sleeve.

### CAPACITOR MOUNTING CLAMPS

Type VR mounting clamps are accessory items not furnished with the capacitor. They are used to mount CG, CGS, and HC-NP types in the vertical position. Standard finish is .0001" (nom.) cadmium plate. Clamping screws furnished and assembled to clamp.

No.	Fig.	A	B	C	Net Ea.
VR3	1	1 3/8"	125/32"	27/32"	12c
VR4	1	1 1/2"	115/32"	21 1/2"	14c
VR6	2	1 3/4"	21 1/4"	29 1/4"	14c
VR8	2	2"	2 1/2"	21 3/4"	14c
VR10	2	2 1/2"	3"	35 1/4"	20c
VR12	3	3"	3 1/4"	31 3/4"	30c

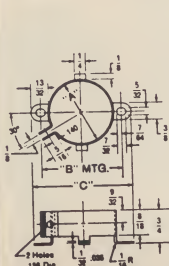


FIGURE 1

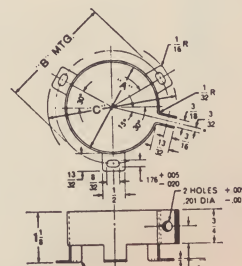


FIGURE 2

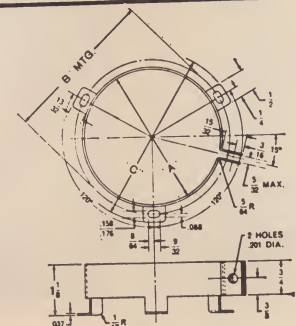
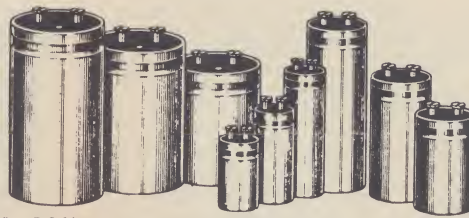


FIGURE 3



# Computer Grade Capacitors

Two classes of Computer Grade Capacitors are available: CGS for 65° C operation and CG for 85° C operation. Operating life of both types should exceed 10 years when used within stated parameters. Derating voltage and/or lowering operating temperature will extend life by a large factor. **Temp. Range:** -20° C to +65° (CGS), +85° (CG). **Tolerance:** 0-150 WVDC, -10 +75% (U); 151 WVDC up, -10 +50% (T). For complete specifications, ask for Form 4-64 (CG), 4-80 (CGS). Both classes are supplied with polyester film insulating sleeves and have "High-post" terminals with #10-32 screws. Physical mounting of these capacitors is usually done with VR clamps shown below. The clamps, however, are not included with the capacitors. Order separately.



## 85° C COMPUTER GRADE

Mallory No.	Cap., $\mu$ F	WV DC	Size	Net Each
CG552U3A1	5,500	3	A	\$2.02
CG1052U3B1	10,500	3	B	2.35
CG143U3C1	14,000	3	C	2.86
CG1752U3H1	17,500	3	H	3.09
CG232U3K1	23,000	3	K	3.57
CG243U3J1	24,000	3	J	3.68
CG363U3D1	36,000	3	D	4.41
CG54U3E1	50,000	3	E	5.65
CG753U3F1	75,000	3	F	7.06
CG1153U3G1	115,000	3	G	8.63
CG442U5A1	4,400	5	A	1.83
CG852U5B1	8,500	5	B	2.71
CG1252U5C1	12,500	5	C	3.28
CG143U5H1	14,000	5	H	3.72
CG1852U5K1	18,500	5	K	4.01
CG24U5J1	20,000	5	J	4.07
CG2752U5D1	27,500	5	D	4.60
CG453U5E1	45,000	5	E	6.05
CG653U5F1	65,000	5	F	7.14
CG15U5G1	100,000	5	G	9.39
CG322U10A1	3,200	10	A	1.75
CG63U10B1	6,000	10	B	2.37
CG822U10C1	8,200	10	C	2.84
CG14U10H1	10,000	10	H	3.15
CG1352U10K1	13,500	10	K	3.72
CG143U10J1	14,000	10	J	3.86
CG183U10D1	18,000	10	D	4.59
CG34U10E1	30,000	10	E	6.61
CG4352U10F1	43,500	10	F	8.25
CG683U10G1	68,000	10	G	9.66
CG252U15A1	2,500	15	A	1.97
CG452U15B1	4,500	15	B	2.60
CG642U15C1	6,400	15	C	2.69
CG83U15H1	8,000	15	H	3.07
CG1052U15K1	10,500	15	K	3.38
CG113U15J1	11,000	15	J	3.50
CG143U15D1	14,000	15	D	4.47
CG233U15E1	23,000	15	E	6.32
CG343U15F1	34,000	15	F	7.11
CG533U15G1	53,000	15	G	9.30
CG152U25A1	1,500	25	A	1.72
CG282U25B1	2,800	25	B	2.12
CG382U25C1	3,800	25	C	2.60
CG452U25H1	4,500	25	H	2.77
CG63U25K1	6,000	25	K	3.23
CG652U25J1	6,500	25	J	3.40
CG852U25D1	8,500	25	D	3.90
CG1352U25E1	13,500	25	E	5.99
CG24U25F1	20,000	25	F	6.55
CG3152U25G1	31,500	25	G	8.78
CG112U35A1	1,100	35	A	1.89
CG212U35B1	2,100	35	B	2.16
CG312U35C1	3,100	35	C	3.04
CG362U35H1	3,600	35	H	3.21
CG472U35K1	4,700	35	K	3.46
CG532U35J1	5,300	35	J	3.63
CG692U35D1	6,900	35	D	4.77
CG113U35E1	11,000	35	E	6.42
CG1652U35F1	16,500	35	F	7.16
CG243U35G1	24,000	35	G	7.75
CG82U50A1	800	50	A	1.74
CG152U50B1	1,500	50	B	2.05
CG23U50C1	2,000	50	C	2.29
CG252U50H1	2,500	50	H	2.52
CG332U50K1	3,300	50	K	3.25
CG352U50J1	3,500	50	J	3.29
CG452U50D1	4,500	50	D	3.47
CG732U50E1	7,300	50	E	5.33
CG14U50F1	10,000	50	F	6.70
CG1652U50G1	16,500	50	G	9.20
CG62U75A1	600	75	A	2.01
CG13U75B1	1,000	75	B	2.35
CG152U75C1	1,500	75	C	2.84
CG23U75H1	2,000	75	H	3.09
CG252U75K1	2,500	75	K	3.70
CG262U75J1	2,600	75	J	3.75
CG3451U75D1	3,450	75	D	4.03
CG552U75E1	5,500	75	E	6.40
CG822U75F1	8,200	75	F	7.25
CG1252U75G1	12,500	75	G	9.45
CG42U100A1	400	100	A	2.01
CG75U100B1	750	100	B	2.38
CG13U100C1	1,000	100	C	2.73
CG132U100H1	1,300	100	H	2.99
CG1651U100K1	1,650	100	K	3.17
CG172U100J1	1,700	100	J	3.31

## 85° C COMPUTER GRADE (CONT.)

Mallory No.	Cap., $\mu$ F	WV DC	Size	Net Each
CG2251U100D1	2,250	100	D	\$4.12
CG362U100E1	3,600	100	E	6.03
CG532U100F1	5,300	100	F	6.74
CG832U100G1	8,300	100	G	9.68
CG2750U150A1	275	150	A	1.63
CG52U150B1	500	150	B	2.05
CG72U150C1	700	150	C	2.40
CG8750U150H1	875	150	H	2.71
CG112U150K1	1,100	150	K	3.13
CG115U150J1	1,150	150	J	3.17
CG1551U150D1	1,550	150	D	4.01
CG252U150E1	2,500	150	E	5.92
CG362U150F1	3,600	150	F	7.08
CG562U150G1	5,600	150	G	9.87
CG181T200A1	180	200	A	2.02
CG341T200B1	340	200	B	2.42
CG451T200C1	450	200	C	2.58
CG551T200H1	550	200	H	2.86
CG751T200K1	750	200	K	3.30
CG82T200J1	800	200	J	3.44
CG13T200D1	1,000	200	D	4.51
CG1651T200E1	1,650	200	E	5.36
CG2451T200F1	2,450	200	F	6.83
CG382T200G1	3,800	200	G	12.26
CG141T250A1	140	250	A	2.41
CG2750T250B1	275	250	B	2.75
CG3750T250C1	375	250	C	2.99
CG451T250H1	450	250	H	3.24
CG62T250K1	600	250	K	3.65
CG6205T250J1	625	250	J	3.80
CG82T250D1	800	250	D	4.72
CG132T250E1	1,300	250	E	6.30
CG192T250F1	1,900	250	F	7.60
CG33T250G1	3,000	250	G	10.16
CG121T300A1	120	300	A	2.45
CG2250T300B1	225	300	B	2.66
CG3250T300C1	325	300	C	2.85
CG42T300H1	400	300	H	3.00
CG5250T300K1	525	300	K	3.27
CG551T300J1	550	300	J	3.32
CG72T300D1	700	300	D	4.74
CG1151T300E1	1,150	300	E	7.35
CG1651T300F1	1,650	300	F	8.46
CG262T300G1	2,600	300	G	10.63
CG12T350A1	100	350	A	2.43
CG181T350B1	180	350	B	2.73
CG251T350C1	250	350	C	2.96
CG32T350H1	300	350	H	3.15
CG42T350K1	400	350	K	3.57
CG4250T350J1	425	350	J	3.80
CG551T350D1	550	350	D	5.10
CG92T350E1	900	350	E	6.46
CG132T350F1	1,300	350	F	8.59
CG23T350G1	2,000	350	G	10.63
CG550T400A1	55	400	A	2.45
CG111T400B1	110	400	B	2.89
CG151T400C1	150	400	C	2.96
CG181T400H1	180	400	H	3.10
CG241T400K1	240	400	K	3.44
CG251T400J1	250	400	J	3.48
CG3250T400D1	325	400	D	3.80
CG531T400E1	530	400	E	5.04
CG41T450A1	40	450	A	1.80
CG81T450B1	80	450	B	2.54
CG111T450C1	110	450	C	2.73
CG141T450H1	140	450	H	3.00
CG181T450K1	180	450	K	3.09
CG191T450J1	190	450	J	3.20
CG241T450D1	240	450	D	3.42

## 65° C COMPUTER GRADE

Mallory No.	Cap., $\mu$ F	WV DC	Size	Net Each
CGS722U010BB1	7,200	10	BB	\$ 2.65
CGS133U010BD1	13,000	10	BD	3.42
CGS203U010BF1	20,000	10	BF	4.80
CGS303U010DD1	30,000	10	DD	6.62
CGS443U010DF1	44,000	10	DF	8.12
CGS663U010DI1	66,000	10	DI	9.51
CGS104U010FF1	100,000	10	FF	10.71
CGS134U010FH1	130,000	10	FH	11.26
CGS164U010FJ1	160,000	10	FJ	11.55
CGS552U015BB1	5,500	15	BB	2.67
CGS103U015BD1	10,000	15	BD	3.34
CGS153U015BF1	15,000	15	BF	4.68

## 65° C COMPUTER GRADE (CONT.)

Mallory No.	Cap., $\mu$ F	WV DC	Size	Net Each
CGS233U015DD1	23,000	15	DD	\$ 6.55
CGS343U015DF1	34,000	15	DF	6.99
CGS503U015DI1	50,000	15	DI	8.90
CGS803U015FF1	80,000	15	FF	10.46
CGS104U015FH1	100,000	15	FH	11.25
CGS124U015FJ1	120,000	15	FJ	11.55
CGS302U025BB1	3,000	25	BB	2.29
CGS562U025BD1	5,600	25	BD	3.15
CGS822U025BF1	8,200	25	BF	3.82
CGS123U025DD1	12,000	25	DD	5.35
CGS183U025DF1	18,000	25	DF	6.43
CGS273U025DI1	27,000	25	DI	7.56
CGS433U025FF1	43,000	25	FF	9.99
CGS573U025FH1	57,000	25	FH	10.81
CGS673U025FJ1	67,000	25	FJ	11.26
CGS222U040BB1	2,200	40	BB	2.14
CGS422U040BD1	4,200	40	BD	3.25
CGS622U040BF1	6,200	40	BF	4.00
CGS932U040DD1	9,300	40	DD	6.05
CGS133U040DF1	13,000	40	DF	6.88
CGS203U040DI1	20,000	40	DI	7.41
CGS323U040FF1	32,000	40	FF	9.50
CGS433U040FH1	43,000	40	FH	10.60
CGS503U040FJ1	50,000	40	FJ	10.75
CGS162U050BB1	1,600	50	BB	2.10
CGS292U050BD1	2,900	50	BD	3.11
CGS432U050BF1	4,300	50	BF	3.42
CGS652U050DD1	6,500	50	DD	5.29
CGS962U050DF1	9,600	50	DF	6.48
CGS143U050DI1	14,000	50	DI	8.35
CGS223U050FF1	22,000	50	FF	9.42
CGS303U050FH1	30,000	50	FH	9.97
CGS353U050FJ1	35,000	50	FJ	10.85
CGS821U075BB1	820	75	BB	2.18
CGS152U075BD1	1,500	75	BD	2.83
CGS232U075BF1	2,300	75	BF	3.46
CGS342U075DD1	3,400	75	DD	4.01
CGS502U075DF1	5,000	75	DF	6.32
CGS752U075DI1	7,500	75	DI	7.14
CGS123U075FF1	12,000	75	FF	9.19
CGS163U075FH1	16,000	75	FH	10.56
CGS193U075FJ1	19,000	75	FJ	10.81
CGS651U100BB1	650	100	BB	2.29
CGS122U100BD1	1,200	100	BD	2.96
CGS182U100BF1	1,800	100	BF	3.21
CGS272U100DD1	2,700	100	DD	5.22
CGS402U100DF1	4,000	100	DF	6.17
CGS592U100DI1	5,900	100	DI	7.45
CGS932U100FF1	9,300	100	FF	10.14
CGS123U100FH1	12,000	100	FH	10.39
CGS153U100FJ1	15,000	100	FJ	11.13
CGS401U150BB1	400	150	BB	2.21
CGS721U150BD1	720	150	BD	2.63
CGS112U150BF1	1,100	150	BF	3.05
CGS162U150DD1	1,600	150	DD	4.20
CGS252U150DF1	2,500	150	DF	5.92
CGS352U150DI1	3,500	150	DI	6.93
CGS552U150FF1	5,500	150	FF	9.87
CGS742U150FH1	7,400	150	FH	10.69
CGS872U150FJ1	8,700	150	FJ	11.34
CGS201T250BB1	200	250	BB	2.56
CGS381T250BD1	380	250	BD	3.04
CGS551T250BF1	550	250	BF	3.52
CGS851T250DD1	850	250	DD	5.21
CGS122T250DF1	1,200	250	DF	6.20
CGS192T250DI1	2,900	250	DI	7.60
CGS292T250FF1	2,900	250	FF	9.83
CGS392T250FH1	3,900	250	FH	10.52
CGS452T250FJ1	4,500	250	FJ	10.99
CGS131T350BB1	130	350	BB	2.54
CGS251T350BD1	250	350	BD	2.98
CGS371T350BF1	370	350	BF	3.44
CGS551T350DD1	550	350	DD	5.01
CGS801T350DF1	800	350	DF	5.98
CGS122T350DI1	1,200	350	DI	7.91
CGS202T350FF1	2,000	350	FF	10.62
CGS262T350FH1	2,600	350	FH	10.92
CGS302T350FJ1	3,000	350	FJ	11.55
CGS750T450BB1	75	450	BB	1.72
CGS141T450BD1	140	450	BD	3.17
CGS211T450BF1	210	450	BF	3.51
CGS321T450DD1	320	450	DD	3.94
CGS481T450DF1	480	450	DF	4.71
CGS701T450DI1	700	450	DI	6.30
CGS112T450FF1	1,100	450	FF	10.12
CGS152T450FH1	1,500	450	FH	10.71
CGS182T450FJ1	1,800	450	FJ	11.55



# Ceramic Capacitors

DISCAP® ceramic disc capacitors offer the widest range of types available. Meet or exceed all requirements of EIA Specification RS-198, Class 2.

## LOW VOLTAGE MAGNACAPS

For low-voltage transistor circuits; rated 3, 12 and 25 WVDC. Tol.: -20%, +80%. Power Factor: 3% at 3 VDC; 5% at 12 and 25 VDC. Temp. Coef.: 3 V units, Z5S: ±22%. All others, Z5U: +22%, -56%. Temp. Range: -55° C to +85° C.

Mallory No.	Cap. pF	WV DC	IR* Ohms	Dia. in.	Net Ea.
MAG315	.05	3	80K	.265	58c
MAG301	.1	3	40K	.265	42c
MAG3022	.22	3	18K	.310	24c
MAG3047	.47	3	9K	.425	24c
MAG31	1.0	3	4K	.615	36c
MAG32P2	2.2	3	1820	.880	42c
MAG1215	.05	12	800K	.290	18c
MAG1201	.1	12	400K	.400	18c
MAG12022	.22	12	180K	.550	24c
MAG121	1.0	12	40K	1.100	58c
MAG2511	.01	25	10 megs	.265	18c
MAG2512	.02	25	10 megs	.340	18c
MAG2515	.05	25	10 megs	.480	18c
MAG2501	.10	25	10 megs	.650	21c
MAG25022	.22	25	10 megs	.910	39c

\*Insulation resistance at rated voltage.

## MINIATURE 100 VOLTS

High capacity miniatures rated 100 WV-DC; flash, 200 VDC. Tol.: -20%, +80%. Power Factor: 3% max. at 1 kHz. Insul. Res.: 7500 megs min. Temp. Coef.: Z5V: +22%, -82%. Temp. Range: +10° C to +85° C.

Mallory No.	Cap. pF	Net Ea.	Mallory No.	Cap. pF	Net Ea.
TA250*	.005	12c	TA125†	.025	18c
TA110*	.01	12c	TA150†	.05	21c
TA120†	.02	18c	TA010†	.1	52c

Dia.: \*1/32"; †1/2"; †5/8".

## MINIATURE 500 VOLTS

Miniature bypass types rated 500 WVDC; flash 1250 VDC. Tol.: ±20% except, \*GMV. Power Factor: 1.5% max. at 1 kHz. Insul. Res.: 7500 megs min. Temp. Coef.: Z5U: +22%, -56%. Temp. Range: +10° C to +85° C.

SM210*	.001	9c	SM110†	.01	12c
SM215*	.0015	9c	SM120†	.02	15c
SM250†	.005	9c			

Dia.: \*1/4"; †3/32"; †3/8"; †1/2"; †5/8".

## GENERAL PURPOSE 1000 VOLTS

Rated 1000 WVDC except 40K and 50K pF units, 500 VDC.

Mallory No.	Cap. pF	Net Ea.	Mallory No.	Cap. pF	Net Ea.
GP533*	3.3	12c	GP336*	360	12c
GP550*	5.0	12c	GP339*	390	12c
GP568*	6.8	12c	GP340*	400	12c
GP580*	8.0	12c	GP347*	470	12c
GP410*	10	12c	GP350*	500	12c
GP412*	12	12c	GP356*	560	12c
GP415*	15	12c	GP360*	600	12c
GP418*	18	12c	GP368*	680	12c
GP420*	20	12c	GP375†	750	12c
GP422*	22	12c	GP382†	820	12c
GP425*	25	12c	GP210†	1000	12c
GP427*	27	12c	GP212†	1200	12c
GP430*	30	12c	GP215†	1500	12c
GP433*	33	12c	GP216†	1600	12c
GP439*	39	12c	GP218†	1800	12c
GP447*	47	12c	GP220†	2000	12c
GP450*	50	12c	GP222†	2200	12c
GP456*	56	12c	GP225†	2500	12c
GP468*	68	12c	GP227†	2700	12c
GP475*	75	12c	GP230†	3000	12c
GP482*	82	12c	GP233†	3300	12c
GP491*	91	12c	GP239†	3900	12c
GP310*	100	12c	GP240†	4000	12c
GP312*	120	12c	GP243†	4300	12c
GP313*	130	12c	GP247†	4700	12c
GP315*	150	12c	GP250†	5000	12c
GP318*	180	12c	GP256†	5600	12c
GP320*	200	12c	GP268†	6800	12c
GP322*	220	12c	GP275†	7500	12c
GP324*	240	12c	GP110*	10K	15c
GP325*	250	12c	GP115*	15K	15c
GP327*	270	12c	GP120*	20K	21c
GP330*	300	12c	GP130*	30K	34c
GP333*	330	12c	GP140*	40K	34c
GP335*	350	12c	GP150†	50K	36c

Max. Dia.: \*0.29"; †0.38"; †0.54"; †0.62"; †0.65"; \*0.77"; †0.95"; †0.83".

®P. R. Mallory & Co. Inc. trademark.

## HEAVY-DUTY BYPASS

High reliability; rated 1000 WVDC for bypass and audio coupling; 2000 VDC flash. Tol.: GMV; except B115 and B120, -20%, +80%. Power Factor: 1.5% max. at 1 kHz. Insul. Res.: 7500 megs min. Temp. Coef.: Z5U: +22%, -56%. Temp. Range: +10° C to +85° C.

Mallory No.	Cap. pF	Net Ea.	Mallory No.	Cap. pF	Net Ea.
B315*	150	12c	B220†	2000	12c
B318*	180	12c	B222†	2200	12c
B322*	220	12c	B227†	2700	12c
B327*	270	12c	B233†	3300	12c
B333*	330	12c	B240†	4000	12c
B339*	390	12c	B247†	4700	12c
B347*	470	12c	B250†	5000	12c
B350*	500	12c	B256†	5600	12c
B356*	560	12c	B260†	6000	12c
B368*	680	12c	B268†	6800	12c
B382*	820	12c	B282†	8200	12c
B210*	1000	12c	B110	10K	21c
B212*	1200	12c	B115*	15K	21c
B215†	1500	12c	B120*	20K	21c
B218†	1800	12c			

Dia.: \*3/32"; †3/8"; †1/2"; †5/8"; †1/2"; †5/8"; †3/4"; †1/2"; †5/8"; †3/4".

\*Guaranteed Minimum Value.

## DUAL-SHIELDED BYPASS

Same as B types except dual back-to-back shielded; Tol.: ±20%; 3 leads.

Mallory No.	Cap. pF	Dia. in.	Net Ea.
B2X210	2 x .001	.290	30c
B2X215	2 x .0015	.400	30c
B2X220	2 x .002	.400	30c
B2X230	2 x .003	.560	30c
B2X250	2 x .005	.650	30c
B2X110	2 x .01	.800	30c

## TEMPERATURE COMPENSATING

Stocked in both NPO (CNO) and N750 (CN7) values. Others, from P100 to N5200 available. Rated 1000 WVDC; 2000 VDC flash. Tol.: 1-4.7 pF, ±0.25 pF, all others, ±5%. Power Factor: 0.1% max. at 1 MHz. Insul. Res.: 7500 megs min. Temp. Coef.: NPO or N750 (see tables). Temp. Range: -55° C to +85° C.

Mallory No.	Cap. pF	Net Ea.	Mallory No.	Cap. pF	Net Ea.
CNO510*	1	12c	CNO427†	27	12c
CNO515*	1.5	12c	CNO433†	33	12c
CNO522*	2.2	12c	CNO439†	39	12c
CNO533*	3.3	12c	CNO447†	47	12c
CNO547*	4.7	12c	CNO450†	50	12c
CNO568*	6.8	12c	CNO456†	56	12c
CNO410*	10	12c	CNO468†	68	12c
CNO412*	12	12c	CNO475†	75	12c
CNO415*	15	12c	CNO482†	82	12c
CNO418†	18	12c	CNO310†	100	12c
CNO420†	20	12c	CNO312†	120	15c
CNO422†	22	12c	CNO315†	150	15c
CNO425†	25	12c			

Mallory No.	Cap. pF	Net Ea.	Mallory No.	Cap. pF	Net Ea.
CN7522*	2.2	12c	CN7447†	47	12c
CN7533*	3.3	12c	CN7456†	56	12c
CN7547*	4.7	12c	CN7468†	68	12c
CN7550*	5	12c	CN7475†	75	12c
CN7568*	6.8	12c	CN7482†	82	12c
CN7410*	10	12c	CN7310†	100	12c
CN7412*	12	12c	CN7312†	120	12c
CN7415*	15	12c	CN7315†	150	12c
CN7418*	18	12c	CN7318†	180	12c
CN7420*	20	12c	CN7320†	200	12c
CN7422*	22	12c	CN7322†	220	12c
CN7427*	27	12c	CN7327†	270	15c
CN7433*	33	12c	CN7333*	330	15c
CN7439†	39	12c	CN7339	390	15c

Dia.: \*3/32"; †1/32"; †1/8"; †5/32"; †3/4"; \*7/8".

## TEMPERATURE STABLE

Extreme temperature stability for filter networks. Rated 1000 WVDC; 2000 VDC flash. Tol.: ±10%. Power Factor: 1.5% max. at 1 kHz. Insul. Res.: 7500 megs min. Temp. Coef.: ±7.5%. Temp. Range: -55° C to +85° C.

Mallory No.	Cap. pF	Net Ea.	Mallory No.	Cap. pF	Net Ea.
JL310*	100	15c	JL212†	1200	15c
JL315*	150	15c	JL215†	1500	15c
JL322*	220	15c	JL218†	1800	15c
JL333*	330	15c	JL220†	2000	18c
JL347†	470	15c	JL222†	2200	18c
JL356†	560	15c	JL233†	3300	21c
JL368†	680	15c	JL239†	3900	21c
JL375†	750	15c	JL247†	4700	27c
JL382†	820	15c	JL250†	5000	27c
JL210†	1000	15c			

Dia.: \*3/32"; †3/8"; †1/2"; †5/8"; †3/4"; \*7/8".

## FREQUENCY STABLE

Capacitance changes less than 10% from 100 cps to 100 Mc. Rated 1000 WVDC; 2000 VDC flash. Tol.: ±10%. Power Factor: 1.5% max. at 1 kHz. Insul. Res.: 7500 megs min. Temp. Coef.: ±7.5% (+10° C to +85° C).

Mallory No.	Cap. pF	Net Ea.	Mallory No.	Cap. pF	Net Ea.
JF482*	82	12c	JF210†	1000	12c
JF310*	100	12c	JF212†	1200	12c
JF312*	120	12c	JF215†	1500	12c
JF315*	150	12c	JF218†	1800	12c
JF322*	220	12c	JF220†	2000	12c
JF327*	270	12c	JF222†	2200	12c
JF347*	470	12c	JF233†	3300	12c
JF350*	500	12c	JF239†	3900	12c
JF356*	560	12c	JF247†	4700	15c
JF368*	680	12c	JF250†	5000	15c
JF375†	750	12c	JF268†	6800	15c
JF382†	820	12c	JF110†	10K	15c

Dia.: \*3/32"; †3/8"; †1/2"; †5/8"; †3/4"; †1/2"; †5/8"; †3/4".

5000 WVDC.

## AC LINE AND BUFFER

U/L Approved for AC line bypass. Rated 1400 WVDC; 150 V rms at 60 Hz; 210 VAC/DC peak; 2800 VDC flash. Tol.: ±20%. Insul. Res.: 7500 megs min. Temp. Coef.: +22%, -56% (+10° C to +85° C); stamped Z5U.

Mallory No.	Cap. pF	Net Ea.	Mallory No.	Cap. pF	Net Ea.
UAC420*	20	21c	UAC233†	3300	24c
UAC447*	47	21c	UAC240†	4000	24c
UAC468†	68	21c	UAC247†	4700	24c
UAC310†	100	21c	UAC250†	5000	24c
UAC333†	330	21c	UAC260†	6000	24c
UAC347*	470	24c	UAC270†	7000	24c
UAC368*	680	24c	UAC275†	7500	24c
UAC210†	1000	24c	UAC280†	8000	24c
UAC220†	2000	24c	UAC110†	10K	24c
UAC222†	2200	24c	UAC120†	20K	42c
UAC230†	3000	24c			

Dia.: \*1/32"; †1/32"; †1/2"; †5/8"; †1".

## HIGH VOLTAGE

High voltage DISCAPs for low frequency use. Rated voltages as listed, below; flash is two times rated voltage. Tol.: ±20%. Power Factor: 1.5% max. at 1 kHz. Insul. Res.: 7500 megs min. Temp. Coef.: Z5U: +22%, -56%. Temp. Range: -35° C to +85° C. Not for deflection yoke use.

### 2000 WVDC

Mallory No.	Cap. pF	Net Ea.	Mallory No.	Cap. pF	Net Ea.
2HV310*	100	15c	2HV210†	1000	24c
2HV312*	120	15c	2HV212†	1200	24c
2HV315*	150	15c	2HV215†	1500	24c
2HV322†	220	15c	2HV218†	1800	24c
2HV327†	270	15c	2HV222†	2200	24c
2HV333†	330	15c	2HV233†	3300	24c
2HV347†	470	15c	2HV239†	3900	24c
2HV356†	560	15c	2HV247†	4700	24c
2HV368†	680	15c	2HV268†	6800	24c
2HV375†	750	15c	2HV110†	10K	24c
2HV382†	820	15c			

### 3000 WVDC

3HV322#	220	21c	3HV210\$	1000	24c
3HV327†	270	21c	3HV212\$	1200	24c
3HV333#	330	21c	3HV215\$	1500	24c
3HV347†	470	21c	3HV218\$	1800	24c
3HV356\$	560	24c	3HV222†	2200	24c
3HV368\$	680	24c	3HV233^	3300	24c
3HV375\$	750	24c	3HV239^	3900	24c
3HV382\$	820	24c	3HV247†	4700	24c



# Ceramic, Film Capacitors

## CERAMIC DISCS (CONT'D)

### DEFLECTION YOKE

Made especially for 15,750 Hz deflection yoke use. Voltage as listed below; flash is two times rated voltage. Tol.:  $\pm 10\%$ . Power Factor: 1.5% max. at 1 kHz. Insul. Resist.: 7500 megohms min. Temp. Coef.: N1500:  $+13\%$ ,  $-10\%$ . Temp. Range:  $-35^\circ\text{C}$  to  $+85^\circ\text{C}$ .

### 2000 WVDC

Mallory No.	Cap., $\mu\text{F}$	Net Ea.	Mallory No.	Cap., $\mu\text{F}$	Net Ea.
2DY547*	4.7	15c	2DY468*	68	15c
2DY568*	6.8	15c	2DY482*	82	15c
2DY410*	10	15c	2DY310†	100	15c
2DY412*	12	15c	2DY315†	150	18c
2DY415*	15	15c	2DY318†	180	18c
2DY422*	22	15c	2DY320†	200	18c
2DY427*	27	15c	2DY322†	220	18c
2DY433*	33	15c	2DY327†	270	21c
2DY439*	39	15c	2DY333†	330	21c
2DY447*	47	15c	2DY339†	390	21c
2DY456*	56	15c	2DY347*	470	24c

### 3000 WVDC

3DY547*	4.7	21c	3DY310†	100	21c
3DY410*	10	21c	3DY312†	120	21c
3DY415*	15	21c	3DY315†	135	21c
3DY422*	22	21c	3DY318†	150	21c
3DY427*	27	21c	3DY318#	180	21c
3DY433*	33	21c	3DY320†	200	24c
3DY439*	39	21c	3DY322†	220	24c
3DY447*	47	21c	3DY327†	270	27c
3DY456*	56	21c	3DY333†	330	27c
3DY468†	68	21c	3DY339†	390	27c
3DY482†	82	21c			

### 5000 WVDC

5DY427*	27	27c	5DY310#	100	39c
5DY433*	33	27c	5DY315*	150	39c
5DY447†	47	30c	5DY318*	180	39c
5DY468†	68	30c	5DY320*	200	39c
5DY482†	82	30c	5DY322*	220	39c

### 6000 WVDC

6DY547*	4.7	36c	6DY439†	39	36c
6DY568*	6.8	36c	6DY447†	47	36c
6DY410*	10	36c	6DY456†	56	36c
6DY412*	12	36c	6DY468†	68	36c
6DY415*	15	36c	6DY482†	82	36c
6DY422*	22	36c	6DY310†	100	39c
6DY427*	27	36c	6DY315*	150	39c
6DY433*	33	36c	6DY318*	180	39c

Dia.: \* $1\frac{1}{32}$ "; † $1\frac{1}{16}$ "; ‡ $1\frac{1}{8}$ "; § $1\frac{1}{4}$ "; ¶ $1\frac{1}{2}$ ".

## PVC DIPPED MYLAR\* RADIAL-LEAD CAPACITORS



All-new construction: 100 and 200-volt ratings are 100% flat-pressed Mylar dielectric; 400, 600, 1600 and 2000-volt ratings have paper and Mylar dielectric. Dipped epoxy case. End foil swaged over and leads welded plus protected by the epoxy coating; no chance for opens or intermittents. Copperweld† leads are double-dip tinned. Tolerance:  $\pm 10\%$ .

### 100 WVDC—100% MYLAR

Mallory No.	Cap., $\mu\text{F}$	Size, Inches L. W. Th.	Net 1-24
PVC1118	.018	.750 .313 .188	\$0.17
PVC1122	.022	.750 .344 .219	.17
PVC1133	.033	.750 .344 .219	.17
PVC114	.04	.750 .344 .219	.18
PVC1147	.047	.750 .344 .219	.18
PVC1156	.056	.750 .375 .250	.20
PVC1168	.068	.750 .375 .250	.20
PVC101	.1	.750 .438 .313	.22
PVC1015	.15	.750 .688 .344	.27
PVC1022	.22	.750 .750 .375	.28
PVC1025	.25	.750 .781 .406	.30
PVC1033	.33	.750 .844 .438	.33
PVC1047	.47	1.125 .750 .375	.38
PVC105	.5	1.125 .781 .406	.38
PVC1068	.68	1.125 .844 .469	.45
PVC11	1.0	1.125 .938 .563	.60
PVC11P5†	1.5	1.750 .781 .406	.82
PVC12†	2.0	1.750 .953 .500	.98

\*DuPont trademark. †Copperweld Corp. trademark. ‡Tubular style with axial leads. §Lead spacing. ¶2000 WVDC.

## PVC MYLARS (CONT'D) 200 WVDC—100% MYLAR

Mallory No.	Cap., $\mu\text{F}$	Size, Inches L. W. Th.	Net 1-24
PVC211	.01	.750 .313 .188	\$0.17
PVC2115	.015	.750 .344 .219	.17
PVC212	.02	.750 .375 .250	.17
PVC2122	.022	.750 .375 .250	.17
PVC2133	.033	.750 .375 .250	.17
PVC214	.04	.750 .375 .250	.18
PVC2147	.047	.750 .375 .250	.18
PVC215	.05	.750 .375 .250	.18
PVC2168	.068	.750 .406 .281	.20
PVC201	.1	.750 .719 .313	.22
PVC2015	.15	.750 .781 .375	.27
PVC2022	.22	.750 .844 .469	.30
PVC2025	.25	.750 .906 .500	.30
PVC2033	.33	.750 .969 .563	.33
PVC2047	.47	1.125 .875 .500	.38
PVC205	.5	1.125 .906 .531	.38
PVC211	1.0	1.750 .750 .406	.66
PVC22†	2.0	1.875 .984 .500	1.12

### 400 WVDC—PAPER/MYLAR

Mallory No.	Cap., $\mu\text{F}$	Size, Inches Dia. L. †	Net 1-24
PVC411	.01	.690 .500 .390	\$0.15
PVC412	.02	.855 .688 .390	.15
PVC4147	.047	1.150 .969 .415	.21
PVC415	.05	1.150 .969 .415	.21
PVC401	.1	1.180 .969 .520	.27
PVC4022	.22	1.560 .1344 .620	.27
PVC4025	.25	1.560 .1344 .650	.27
PVC4047†	.47	1.625 .700 .700	.72
PVC405†	.5	1.625 .740 .700	.83

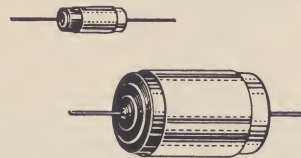
### 600 WVDC—PAPER/MYLAR

PVC621	.001	.66 .500 .340	\$0.15
PVC6212	.0012	.66 .500 .340	.15
PVC6215	.0015	.66 .500 .340	.15
PVC622	.002	.66 .500 .340	.15
PVC6222	.0022	.66 .500 .340	.15
PVC6225	.0025	.66 .500 .340	.15
PVC623	.003	.66 .500 .370	.15
PVC6233	.0033	.66 .500 .370	.15
PVC6239	.0039	.66 .500 .370	.15
PVC624	.004	.66 .500 .370	.15
PVC6247	.0047	.69 .500 .400	.15
PVC625	.005	.69 .500 .400	.15
PVC6256	.0056	.69 .500 .415	.15
PVC626	.006	.69 .500 .415	.15
PVC6268	.0068	.69 .500 .430	.18
PVC6275	.0075	.69 .500 .430	.18
PVC628	.008	.69 .500 .430	.18
PVC6282	.0082	.67 .688 .370	.18
PVC611	.01	.87 .688 .390	.18
PVC6112	.012	.87 .688 .400	.18
PVC6115	.015	.87 .688 .445	.18
PVC612	.02	.87 .688 .445	.18
PVC6122	.022	.87 .688 .470	.18
PVC6125	.025	.87 .688 .500	.21
PVC6127	.027	1.15 .969 .415	.21
PVC6125	.025	.87 .969 .500	.21
PVC613	.03	1.15 .969 .415	.21
PVC6133	.033	1.15 .969 .430	.21
PVC6139	.039	1.15 .969 .470	.21
PVC614	.04	1.15 .969 .470	.21
PVC6147	.047	1.15 .969 .490	.24
PVC615	.05	1.15 .969 .490	.24
PVC6156	.056	1.18 .969 .520	.24
PVC6168	.068	1.30 .1094 .540	.27
PVC601	.1	1.30 .1094 .640	.27
PVC6015	.15	1.56 .1344 .650	.30
PVC602	.2	1.56 .1344 .740	.44
PVC6022	.22	1.56 .1344 .750	.44
PVC6025	.25	1.56 .1344 .830	.48
PVC6033	.33	1.56 .1344 .890	.59
PVC6047†	.47	2.00 .855 .700	1.07
PVC61†	1.0	2.50 .1165 .700	1.90

### 1600 WVDC—PAPER/MYLAR

PVC1621	.001	.87 .688 .350	\$0.21
PVC16215	.0015	.87 .688 .350	.21
PVC16222	.0022	.87 .688 .420	.21
PVC16227	.0027	.87 .688 .450	.24
PVC1623	.003	.87 .688 .470	.24
PVC16233	.0033	.87 .688 .480	.24
PVC1624	.004	.87 .688 .520	.24
PVC16247	.0047	.87 .688 .540	.24
PVC1625	.005	.87 .969 .565	.24
PVC1626	.006	1.18 .969 .475	.24
PVC16268	.0068	1.18 .969 .485	.27
PVC1627	.007	1.18 .969 .490	.27
PVC16275	.0075	1.18 .969 .495	.27
PVC1628	.008	1.18 .969 .505	.27
PVC16282	.0082	1.18 .969 .510	.27
PVC1611	.01	1.18 .969 .525	.30
PVC16115	.015	1.30 .1094 .560	.33
PVC1612	.02	1.60 .1344 .580	.42
PVC16122	.022	1.60 .1344 .585	.42
PVC16133	.033	1.60 .1344 .695	.45
PVC1615	.05	1.60 .1344 .790	.51
PVC2X21§	.001	.87 .688 .360	.21

## 600 VOLT POLYSTYRENE CAPACITORS



Manufactured from a unique form of stretched and fused polystyrene to provide the ultimate in temperature stability and humidity protection. Can replace mica, film, paper and ceramic types in most applications. Full coverage includes 73 standard ratings from 5 pF to .01  $\mu\text{F}$ . Insulation Resistance: Greater than 100,000 megohms. Power Factor: Less than 0.05%. Temperature Coefficient:  $-150$  ppm/ $^\circ\text{C}$ ,  $\pm 60$  ppm/ $^\circ\text{C}$ . Temperature Range:  $-40^\circ\text{C}$  to  $+85^\circ\text{C}$ ; for best operating stability,  $-10^\circ\text{C}$  to  $+70^\circ\text{C}$ . Voltage: 600 WVDC; surge, 1500 VDC. Tolerance:  $\pm 1$  pF, values 5-18 pF;  $\pm 5\%$ , all others. Sizes shown are  $\pm .010$ " dia. x  $\pm .032$ " lg. Ask for Bulletin 9-370 for complete specifications.

Mallory No.	Cap., pF	Size, In. Dia. x L.	Net Each
SX550	5	.165 x .395	12c
SX568	6.8	.166 x .395	12c
SX410	10	.167 x .395	12c
SX412	12	.167 x .395	12c
SX415	15	.168 x .395	12c
SX418	18	.169 x .395	12c
SX420	20	.170 x .395	12c
SX422	22	.170 x .395	12c
SX424	24	.171 x .395	12c
SX427	27	.172 x .395	12c
SX430	30	.173 x .395	12c
SX433	33	.173 x .395	12c
SX436	36	.174 x .395	12c
SX439	39	.175 x .395	12c
SX443	43	.177 x .395	12c
SX447	47	.178 x .395	12c
SX456	56	.180 x .395	12c
SX462	62	.182 x .395	12c
SX468	68	.184 x .395	12c
SX475	75	.188 x .395	12c
SX482	82	.189 x .395	12c
SX491	91	.192 x .395	12c
SX310	100	.195 x .395	12c
SX311	110	.198 x .395	12c
SX312	120	.201 x .395	12c
SX313	130	.204 x .395	12c
SX315	150	.210 x .395	12c
SX316	160	.213 x .395	12c
SX318	180	.221 x .395	12c
SX320	200	.227 x .395	12c
SX322	220	.233 x .395	12c
SX324	240	.239 x .395	12c
SX327	270	.248 x .395	12c
SX330	300	.255 x .395	12c
SX333	330	.194 x .590	12c
SX336	360	.195 x .590	12c
SX339	390	.197 x .590	12c
SX343	430	.200 x .590	12c
SX347	470	.202 x .590	12c
SX351	510	.204 x .590	12c
SX356	560	.207 x .590	12c
SX362	620	.211 x .590	12c
SX368	680	.215 x .590	12c
SX375	750	.219 x .590	12c
SX382	820	.223 x .590	12c
SX391	910	.228 x .590	12c
SX210	1,000	.233 x .590	12c
SX211	1,100	.238 x .590	12c
SX212	1,200	.245 x .590	15c
SX213	1,300	.250 x .590	15c
SX215	1,500	.262 x .590	15c
SX216	1,600	.267 x .590	15c
SX218	1,800	.279 x .590	15c
SX220	2,000	.291 x .590	15c
SX222	2,200	.300 x .590	15c
SX224	2,400	.314 x .590	15c
SX225	2,500	.320 x .590	15c
SX227	2,700	.331 x .590	15c
SX230	3,000	.348 x .590	15c
SX233	3,300	.366 x .590	15c
SX236	3,600	.383 x .590	18c
SX239	3,900	.402 x .590	18c
SX243	4,300	.425 x .590	18c
SX247	4,700	.448 x .590	18c
SX250	5,000	.466 x .590	18c
SX251	5,100	.470 x .590	21c



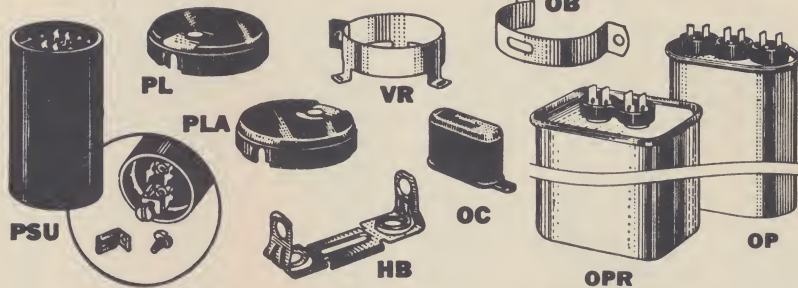
# AC Motor Capacitors

## TYPE PSU

### MOTOR STARTING CAPACITORS

PSU capacitors are dry electrolytic non-polarized types for intermittent duty in AC motor starting circuits. Capacitors are rated at minimum to maximum microfarads. Round cases are of moisture and oil resistant molded plastic. Equipped with two quick disconnect terminals. Packed with two PSUA terminal adapters for solder or screw type connection. May be mounted by means of PL plastic end cap and HB metal snap-in bracket or VR clamp-bracket. (Order separately.)

Mallory No.	Cap., $\mu$ F	V AC	Size, In. Dia. x L.	List Each
PSU2010	20-24	110	1 1/4 x 2 3/4	\$ 2.05
PSU2610	26-31	110	1 1/4 x 2 3/4	2.10
PSU3210	32-39	110	1 1/4 x 2 3/4	2.10
PSU3810	38-46	110	1 1/4 x 2 3/4	2.10
PSU4310	43-52	110	1 1/4 x 2 3/4	2.10
PSU5310	53-64	110	1 1/4 x 2 3/4	2.15
PSU6410	64-77	110	1 1/4 x 2 3/4	2.25
PSU7010	70-84	110	1 1/4 x 2 3/4	2.40
PSU7510	75-90	110	1 1/4 x 2 3/4	2.55
PSU8610	86-103	110	1 1/4 x 2 3/4	2.65
PSU9710	97-116	110	1 1/4 x 2 3/4	2.80
PSU10810	108-130	110	1 1/4 x 2 3/4	2.85
PSU12410	124-149	110	1 1/4 x 2 3/4	2.95
PSU13010	130-156	110	1 1/4 x 2 3/4	2.95
PSU14510	145-174	110	1 1/4 x 2 3/4	3.20
PSU15810	158-190	110	1 1/4 x 2 3/4	3.25
PSU16110	161-193	110	1 1/4 x 2 3/4	3.25
PSU19210	192-230	110	1 1/4 x 2 3/4	3.75
PSU19410	194-230	110	1 1/4 x 2 3/4	3.90
PSU20010	200-240	110	1 1/4 x 2 3/4	3.90
PSU21610	216-259	110	1 1/4 x 2 3/4	4.05
PSU23310	233-280	110	1 1/4 x 2 3/4	4.50
PSU23310A	233-280	110	1 1/4 x 2 3/4	4.50
PSU23310B	233-280	110	1 1/4 x 2 3/4	4.50
PSU24310	243-292	110	1 1/4 x 2 3/4	4.70
PSU27010	270-324	110	1 1/4 x 2 3/4	4.75
PSU27010A	270-324	110	1 1/4 x 2 3/4	4.75
PSU28210	282-338	110	1 1/4 x 2 3/4	4.85
PSU32410	324-389	110	1 1/4 x 2 3/4	5.40
PSU34010	340-408	110	1 1/4 x 2 3/4	5.55
PSU34110	341-409	110	1 1/4 x 2 3/4	5.55
PSU37810	378-454	110	1 1/4 x 2 3/4	6.00
PSU40010	400-480	110	1 1/4 x 2 3/4	6.05
PSU40010A	400-480	110	1 1/4 x 2 3/4	6.05
PSU40010B	400-480	110	1 1/4 x 2 3/4	6.05
PSU46010	460-552	110	1 1/4 x 2 3/4	7.25
PSU48510	485-568	110	1 1/4 x 2 3/4	7.60
PSU54010	540-648	110	1 1/4 x 2 3/4	8.15
PSU59010	590-708	110	1 1/4 x 2 3/4	8.85
PSU70810	708-849	110	1 1/4 x 2 3/4	10.55
PSU3825	38-46	125	1 1/4 x 2 3/4	2.30
PSU7225	72-86	125	1 1/4 x 2 3/4	2.55
PSU8625	86-104	125	1 1/4 x 2 3/4	2.75
PSU10825	108-130	125	1 1/4 x 2 3/4	3.05
PSU12425	124-149	125	1 1/4 x 2 3/4	3.25
PSU13025	130-156	125	1 1/4 x 2 3/4	3.25
PSU14525	145-174	125	1 1/4 x 2 3/4	3.65
PSU16125	161-193	125	1 1/4 x 2 3/4	3.85
PSU16125A	161-193	125	1 1/4 x 2 3/4	3.85
PSU18925	189-229	125	1 1/4 x 2 3/4	4.20
PSU19225	192-230	125	1 1/4 x 2 3/4	4.30
PSU21625	216-259	125	1 1/4 x 2 3/4	4.75
PSU24325	243-292	125	1 1/4 x 2 3/4	5.20
PSU27325	273-328	125	1 1/4 x 2 3/4	5.50
PSU32425	324-389	125	1 1/4 x 2 3/4	5.80
PSU34125	341-409	125	1 1/4 x 2 3/4	6.50
PSU40025	400-480	125	1 1/4 x 2 3/4	6.75
PSU48525	485-543	125	1 1/4 x 2 3/4	7.45
PSU18965	189-227	165	1 1/4 x 2 3/4	7.25
PSU21665	216-259	165	1 1/4 x 2 3/4	7.50
PSU24365	243-292	165	1 1/4 x 2 3/4	8.60
PSU2520	25-30	220	1 1/4 x 2 3/4	4.60
PSU3220	32-38	220	1 1/4 x 2 3/4	4.90
PSU3820	38-46	220	1 1/4 x 2 3/4	5.30
PSU4320	43-52	220	1 1/4 x 2 3/4	5.55
PSU5020	50-60	220	1 1/4 x 2 3/4	5.65
PSU5320	53-64	220	1 1/4 x 2 3/4	5.75
PSU6420	64-77	220	1 1/4 x 2 3/4	6.75
PSU7020	70-84	220	1 1/4 x 2 3/4	7.00
PSU7520	75-90	220	1 1/4 x 2 3/4	7.35
PSU8620	86-103	220	1 1/4 x 2 3/4	7.65
PSU10820	108-130	220	1 1/4 x 2 3/4	7.65
PSU12120	121-145	220	1 1/4 x 2 3/4	8.60
PSU13520	135-162	220	1 1/4 x 2 3/4	9.00
PSU14120	141-169	220	1 1/4 x 2 3/4	9.35
PSU14120R	141-169*	220	1 1/4 x 2 3/4	9.60
PSU14520	145-174	220	1 1/4 x 2 3/4	10.00
PSU16120	161-193	220	1 1/4 x 2 3/4	10.30
PSU18920R	189-227*	220	1 1/4 x 2 3/4	12.75
PSU21620	216-259	220	1 1/4 x 2 3/4	14.35
PSU23320	233-280	220	1 1/4 x 2 3/4	15.10
PSU1850R	18-22*	250	1 1/4 x 2 3/4	4.50
PSU2550	25-30	250	1 1/4 x 2 3/4	4.70
PSU3650	36-43	250	1 1/4 x 2 3/4	5.80
PSU4350	43-53	250	1 1/4 x 2 3/4	5.90
PSU5050	50-60	250	1 1/4 x 2 3/4	5.75
PSU5950	59-71	250	1 1/4 x 2 3/4	6.90
PSU7550	75-90	250	1 1/4 x 2 3/4	7.25
PSU8150	81-97	250	1 1/4 x 2 3/4	7.50
PSU10850	108-130	250	1 1/4 x 2 3/4	9.40
PSU12150	121-145	250	1 1/4 x 2 3/4	9.90



## TYPE PSU (Continued)

Mallory No.	Cap., $\mu$ F	V AC	Size, In. Dia. x L.	List Each
PSU13550	135-162	250	2 1/4 x 4 3/4	\$10.30
PSU14150	141-169	250	2 1/4 x 4 3/4	11.50
PSU16150R	161-193*	250	2 1/4 x 4 3/4	13.45
PSU18950	189-227	250	2 1/4 x 4 3/4	14.45
PSU2730	27-32	330	1 1/4 x 3 3/4	5.20
PSU3430	34-42	330	1 1/4 x 3 3/4	5.40
PSU7230	72-88	330	2 1/4 x 4 3/4	8.60
PSU8130	81-90	330	2 1/4 x 4 3/4	10.00
PSU9730	97-116	330	2 1/4 x 4 3/4	11.15
PSU10830	108-130	330	2 1/4 x 4 3/4	11.75
PSU10830R	108-130*	330	2 1/4 x 4 3/4	12.25
PSU12430	124-149	330	2 1/4 x 4 3/4	13.65
PSU12730	127-152	330	2 1/4 x 4 3/4	13.75
PSU13530	135-162	330	2 1/4 x 4 3/4	13.45
PSU13530R	135-162*	330	2 1/4 x 4 3/4	14.20
PSU14530	145-175	330	2 1/4 x 4 3/4	15.75
PSU16130	161-193	330	2 1/4 x 4 3/4	17.50

\*Furnished with Bleeder resistor.

## MOTOR RUN CAPACITORS

For motor run and fluorescent ballast applications. All types have metal cases and quick-disconnect terminals with flash guards. Impregnating oil is nonflammable. Tolerance:  $\pm 10\%$ . Temp. Range:  $-30^\circ$  to  $+70^\circ$  C. Always connect AC line to red terminal and windings to black.

## TYPE OP (OVAL)

Mallory No.	Cap., $\mu$ F	V AC	Size, Inches	List Each
OP1065	10	165	1 1/4 x 2 3/4 x 2 1/4	\$9.20
OP336	3	236	1 1/4 x 2 3/4 x 2 1/4	4.20
OP436	4	236	1 1/4 x 2 3/4 x 2 1/4	4.50
OP536	5	236	1 1/4 x 2 3/4 x 2 1/4	5.00
OP7x36	7.5	236	1 1/4 x 2 3/4 x 2 1/4	9.30
OP1036	10	236	1 1/4 x 2 3/4 x 2 1/4	10.30
OP1536	15	236	1 1/4 x 2 3/4 x 2 1/4	11.65
OP2036	20	236	1 1/4 x 2 3/4 x 2 1/4	17.00
OP17525	17.5	250	2 1/4 x 2 3/4 x 3 1/4	15.80
OP1033	10	330	2 1/4 x 2 3/4 x 3 1/4	10.50
OP14533	14.5	330	2 1/4 x 2 3/4 x 3 1/4	11.65
OP370	3	370	1 1/4 x 2 3/4 x 2 1/4	4.40
OP470	4	370	1 1/4 x 2 3/4 x 2 1/4	4.70
OP570	5	370	1 1/4 x 2 3/4 x 2 1/4	6.05
OP670	6	370	1 1/4 x 2 3/4 x 2 1/4	7.70
OP7x570	7.5	370	1 1/4 x 2 3/4 x 2 1/4	9.70
OP1070	10	370	1 1/4 x 2 3/4 x 2 1/4	10.90
OP12x70	12.5	370	1 1/4 x 2 3/4 x 2 1/4	11.65
OP1570B	15	370	1 1/4 x 2 3/4 x 2 1/4	11.65
OP1570	15	370	2 1/4 x 2 3/4 x 2 1/4	11.65
OP17570B	17.5	370	1 1/4 x 2 3/4 x 2 1/4	14.20
OP17570	17.5	370	2 1/4 x 2 3/4 x 2 1/4	14.20
OP2070B	20	370	1 1/4 x 2 3/4 x 2 1/4	17.20
OP2070	20	370	2 1/4 x 2 3/4 x 2 1/4	17.20
OP2570B	25	370	1 1/4 x 2 3/4 x 2 1/4	21.00
OP2570C	25	370	1 1/4 x 2 3/4 x 2 1/4	21.00
OP2570	25	370	2 1/4 x 2 3/4 x 2 1/4	21.00
OP27570	27.5	370	1 1/4 x 2 3/4 x 2 1/4	22.15
OP3070	30	370	1 1/4 x 2 3/4 x 2 1/4	23.25
OP3570	35	370	1 1/4 x 2 3/4 x 2 1/4	24.30
OP17D570	17.5, 5	370	1 1/4 x 2 3/4 x 2 1/4	16.28
OP20D570	20, 5	370	1 1/4 x 2 3/4 x 2 1/4	18.75
OP25D570	25, 5	370	1 1/4 x 2 3/4 x 2 1/4	23.39
OP30D570	30, 5	370	1 1/4 x 2 3/4 x 2 1/4	25.33
OP35D570	35, 5	370	1 1/4 x 2 3/4 x 2 1/4	30.35
OP240	2	440	1 1/4 x 2 3/4 x 2 1/4	5.45
OP340	3	440	1 1/4 x 2 3/4 x 2 1/4	5.80
OP440	4	440	1 1/4 x 2 3/4 x 2 1/4	6.45
OP540	5	440	1 1/4 x 2 3/4 x 2 1/4	8.00
OP7x40	7.5	440	1 1/4 x 2 3/4 x 2 1/4	10.45
OP1040	10	440	1 1/4 x 2 3/4 x 2 1/4	11.40
OP1044	10	440	2 1/4 x 2 3/4 x 2 1/4	11.40
OP1540	15	440	1 1/4 x 2 3/4 x 2 1/4	15.80
OP17x40	17.5	440	1 1/4 x 2 3/4 x 2 1/4	19.20
OP17Dx40	17.5, 5	440	1 1/4 x 2 3/4 x 2 1/4	17.40*
OP2040	20	440	1 1/4 x 2 3/4 x 2 1/4	19.20
OP2040B	20	440	1 1/4 x 2 3/4 x 2 1/4	19.20
OP2540	25	440	1 1/4 x 2 3/4 x 2 1/4	27.20
OP3040	30	440	1 1/4 x 2 3/4 x 2 1/4	31.65
OP3540	35	440	1 1/4 x 2 3/4 x 2 1/4	35.00
OP4040	40	440	1 1/4 x 2 3/4 x 2 1/4	38.40

\*Fused capacitor.

## TYPE OPR (RECTANGULAR)

Mallory No.	Cap., $\mu$ F	V AC	Size, Inches	List Each
OPR2070	20	370	2 1/4 x 2 3/4 x 5 3/4	\$22.00
OPR2570	25	370	2 1/4 x 2 3/4 x 5 3/4	23.35
OPR2570B	25	370	2 1/4 x 2 3/4 x 5 3/4	23.25
OPR3070	30	370	2 1/4 x 2 3/4 x 5 3/4	24.80
OPR3570	35	370	2 1/4 x 2 3/4 x 5 3/4	25.90
OPR4070	40	370	2 1/4 x 2 3/4 x 5 3/4	36.60
OPR4570	45	370	2 1/4 x 2 3/4 x 5 3/4	40.10
OPR2040	20	440	2 1/4 x 2 3/4 x 6 3/4	19.20
OPR2040B	20	440	2 1/4 x 2 3/4 x 6 3/4	19.20
OPR2540	25	440	2 1/4 x 2 3/4 x 6 3/4	27.20
OPR3040	30	440	2 1/4 x 2 3/4 x 6 3/4	31.65
OPR3540	35	440	2 1/4 x 2 3/4 x 6 3/4	35.00
OPR4040	40	440	2 1/4 x 2 3/4 x 6 3/4	38.40
OPR4540	45	440	2 1/4 x 2 3/4 x 6 3/4	42.50
OPR5040B	50	440	2 1/4 x 2 3/4 x 6 3/4	46.70
OPR5040	50	440	2 1/4 x 2 3/4 x 6 3/4	46.70
OPR5540	55	440	2 1/4 x 2 3/4 x 7 1/2	54.80
OPR6040	60	440	3 1/4 x 4 3/4 x 7	62.90

## TYPE RP (ROUND)

Mall
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# Molded Solid Tantalum Capacitors

## • TAC SOLID ELECTROLYTE MOLDED AXIAL-LEAD TANTALUMS

Miniature tubular design for high density applications. Solid electrolyte tantalum in precision molded case .105" dia. x .290" long. Axial leads #24 wire (.020" dia.) 1 1/2" long. Packaged 10 per carton.

### TAC STOCK VALUES

Mallory Number	Cap., $\mu$ F	WVDC at +85° C	Price Code †
TAC156*003P02	15	3	A
TAC186*003P02	18	3	A†
TAC825*006P02	8.2	6	A
TAC106*006P02	10	6	A
TAC126*006P02	12	6	A
TAC335*010P02	3.3	10	A
TAC395*010P02	3.9	10	A
TAC475*010P02	4.7	10	A
TAC565*010P02	5.6	10	A
TAC685*010P02	6.8	10	A
TAC275*015P02	2.7	15	A
TAC105*020P02	1.0	20	A
TAC125*020P02	1.2	20	A
TAC155*020P02	1.5	20	A
TAC185*020P02	1.8	20	A
TAC225*020P02	2.2	20	A
TAC564*035P02	.56	35	A†
TAC684*035P02	.68	35	A
TAC824*035P02	.82	35	A
TAC823*050P02	.082	50	B†
TAC104*050P02	.1	50	B
TAC124*050P02	.12	50	B†
TAC154*050P02	.15	50	B
TAC184*050P02	.18	50	B†
TAC224*050P02	.22	50	B
TAC274*050P02	.27	50	B†
TAC334*050P02	.33	50	B
TAC394*050P02	.39	50	B†
TAC474*050P02	.47	50	B

\*Specify tolerance: M =  $\pm 20\%$ , K =  $\pm 10\%$ ; see below. † =  $\pm 20\%$  not normally stocked; available on special order.

### $\pm 20\%$ TOLERANCE

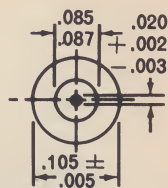
†Price Code	Net Each, Lots of		
	1-99	100-499	500-999
A	\$0.58	\$0.44	\$0.29
B	.82	.62	.41

### $\pm 10\%$ TOLERANCE

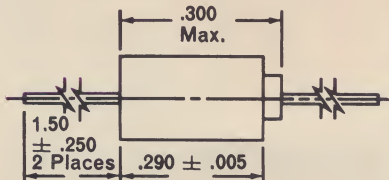
A	\$0.66	\$0.50	\$0.33
B	1.06	.80	.53

### TAC DIMENSIONS

Both leads shall be concentric with the body of the capacitor within 0.020 T.I.R.



End with step on corner shall be positive.



## • TIM MOLDED RECTANGULAR SOLID ELECTROLYTE TANTALUMS

Radial lead tantalums with solid electrolyte in rectangular case .228" w. x .345" h. x .105" th. Tinned #24 AWG wire leads spaced .125" apart, bent out at 90° in opposite directions 1/2" from bottom of body. Lead length 1 1/2"; may be cut to desired length for printed circuit board insertion. Packaged 10 per carton.

### TIM STOCK VALUES

Mallory Number	Cap., $\mu$ F	WVDC at +85° C	Price Code †
TIM126*003POW	12	3	A†
TIM825*006POW	8.2	6	A†
TIM106*006POW	10	6	A
TIM475*010POW	4.7	10	A
TIM565*010POW	5.6	10	A†
TIM685*010POW	6.8	10	A
TIM275*015POW	2.7	15	A†
TIM335*015POW	3.3	15	A
TIM395*015POW	3.9	15	A†
TIM155*020POW	1.5	20	A
TIM185*020POW	1.8	20	A†
TIM225*020POW	2.2	20	A
TIM824*035POW	.82	35	A†
TIM105*035POW	1.0	35	A
TIM125*035POW	1.2	35	A†
TIM823*050POW	.082	50	B
TIM124*050POW	.12	50	B†
TIM154*050POW	.15	50	B
TIM184*050POW	.18	50	B†
TIM224*050POW	.22	50	B
TIM274*050POW	.27	50	B†
TIM334*050POW	.33	50	B
TIM394*050POW	.39	50	B†
TIM474*050POW	.47	50	B
TIM564*050POW	.56	50	B†
TIM684*050POW	.68	50	B

\*Specify tolerance: M =  $\pm 20\%$ , K =  $\pm 10\%$ ; see below. † =  $\pm 20\%$  not normally stocked; available on special order.

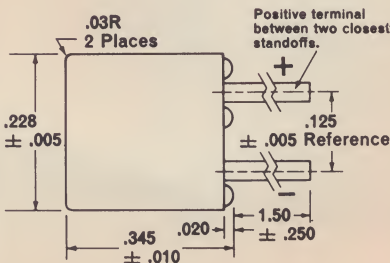
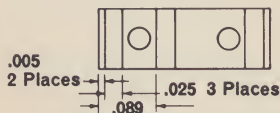
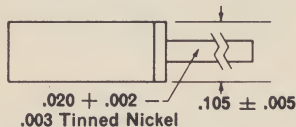
### $\pm 20\%$ TOLERANCE

†Price Code	Net Each, Lots of		
	1-99	100-499	500-999
A	\$0.66	\$0.50	\$0.33
B	.92	.70	.46

### $\pm 10\%$ TOLERANCE

A	\$0.72	\$0.55	\$0.36
B	1.18	.89	.59

### TIM DIMENSIONS



## TAM SOLID ELECTROLYTE



Mallory TAM tantalum capacitors are made to the same exacting standards as the TAS types. The TAM is designed for printed circuit board applications and has parallel leads 1 1/2" long spaced .200" apart. Case is premolded plastic with polarity markings on the top. Temperature range is -55° C to +85° C. Standard tolerance:  $\pm 20\%$ . Stability and life characteristics are ideal for low voltage, low impedance transistorized circuits. Complete technical specifications and typical life test data is given in Technical Bulletin 4-47.

Cap., $\mu$ F	WVDC +85° C	Mallory Number	Case Size†
56	6	TAM566M006P5C	C
33	10	TAM336M010P5C	C
39	10	TAM396M010P5C	C
22	15	TAM226M015P5C	C
6.8	25	TAM685M025P5C	C
10	25	TAM106M025P5C	C
15	25	TAM156M025P5C	C
4.7	35	TAM475M035P5C	C

†.325" w. x .175" d. x .425" h.

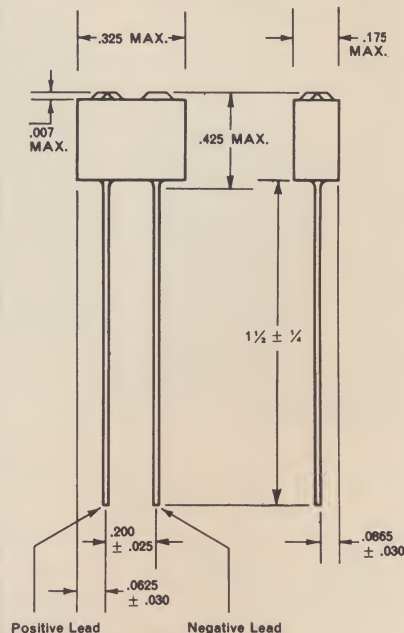
Case Size	Net Each, Lots of				
	1-24	25-49	50-99	100-499	500-999
C	\$1.28	\$0.96	\$0.82	\$0.69	\$0.63

### TAM DIMENSIONS

#### MECHANICAL



Body: External Surface:  
Plastic Encapsulation



Positive Lead Negative Lead

Leads: Tinned Pure Nickel #24 AWG

"DIMENSIONS IN INCHES"



# Solid Tantalum Capacitors

## CS12, CS13 AND TAS SOLID ELECTROLYTE TANTALUM CAPACITORS



Ultra-miniature capacitors designed to withstand the most difficult environmental conditions. Furnished in hermetically sealed metal cases. Temperature range: -80° C to +85° C (to +125° C with derating). TAS commercial types 6 through 50 WVDC are shown on this page. TAS 75 and 100 WVDC are shown on the next page. CS12 and CS13 types to both MIL-C-26655A and MIL-C-26655B are shown on next page. **TAS ORDERING INFORMATION:** Are specified by a 13-digit part number. **Tolerance:** Specify **K** for ±10% or **M** for ±20%. **Insulating Sleeve:** TAS types are listed with uninsulated cases; for insulating sleeve, change

12th digit of part number from 0 to 1 and add 2c to prices shown. **Case Sizes:** TAS sizes are indicated by the last digit in the part number (**A, C, F, & G**). See price table below. **CS12/13 ORDERING INFORMATION:** Shown on next page to both MIL-C-26655A and MIL-C-26655B. Either type may be ordered. Prices are shown below by case code. **Tolerance:** Specify **K** for ±10% or **M** for ±20%. **Insulating Sleeve:** Uninsulated CS12 types are shown. For insulating sleeve, specify **CS13** and add 2c to prices shown. **Case Sizes:** Shown below by code letter in listing, see price table below.

### STOCK VALUES—TAS TYPES

Cap., μF	6 WVDC Mallory No.†	10 WVDC Mallory No.†	15 WVDC Mallory No.†	20 WVDC Mallory No.†	35 WVDC Mallory No.†	50 WVDC Mallory No.†
.0047	TAS472*006P0A	TAS472*010P0A	TAS472*015P0A	TAS472*020P0A	TAS472*035P0A*	
.0056	TAS562K006P0A	TAS562K010P0A	TAS562K015P0A	TAS562K020P0A	TAS562K035P0A*	
.0068	TAS682*006P0A	TAS682*010P0A	TAS682*015P0A	TAS682*020P0A	TAS682*035P0A*	
.0082	TAS822K006P0A	TAS822K010P0A	TAS822K015P0A	TAS822K020P0A	TAS822K035P0A*	
.010	TAS103*006P0A	TAS103*010P0A	TAS103*015P0A	TAS103*020P0A	TAS103*035P0A*	
.012	TAS123K006P0A	TAS123K010P0A	TAS123K015P0A	TAS123K020P0A	TAS123K035P0A*	
.015	TAS153*006P0A	TAS153*010P0A	TAS153*015P0A	TAS153*020P0A	TAS153*035P0A*	
.018	TAS183K006P0A	TAS183K010P0A	TAS183K015P0A	TAS183K020P0A	TAS183K035P0A*	
.022	TAS223*006P0A	TAS223*010P0A	TAS223*015P0A	TAS223*020P0A	TAS223*035P0A*	
.027	TAS273K006P0A	TAS273K010P0A	TAS273K015P0A	TAS273K020P0A	TAS273K035P0A*	
.033	TAS333*006P0A	TAS333*010P0A	TAS333*015P0A	TAS333*020P0A	TAS333*035P0A*	
.039	TAS393K006P0A	TAS393K010P0A	TAS393K015P0A	TAS393K020P0A	TAS393K035P0A*	
.047	TAS473*006P0A	TAS473*010P0A	TAS473*015P0A	TAS473*020P0A	TAS473*035P0A*	
.056	TAS563K006P0A	TAS563K010P0A	TAS563K015P0A	TAS563K020P0A	TAS563K035P0A*	
.068	TAS683*006P0A	TAS683*010P0A	TAS683*015P0A	TAS683*020P0A	TAS683*035P0A*	
.082	TAS823K006P0A	TAS823K010P0A	TAS823K015P0A	TAS823K020P0A	TAS823K035P0A*	
.10	TAS104*006P0A	TAS104*010P0A	TAS104*015P0A	TAS104*020P0A	TAS104*035P0A*	
.12	TAS124K006P0A	TAS124K010P0A	TAS124K015P0A	TAS124K020P0A	TAS124K035P0A*	
.15	TAS154*006P0A	TAS154*010P0A	TAS154*015P0A	TAS154*020P0A	TAS154*035P0A*	
.18	TAS184K006P0A	TAS184K010P0A	TAS184K015P0A	TAS184K020P0A	TAS184K035P0A*	
.22	TAS224*006P0A	TAS224*010P0A	TAS224*015P0A	TAS224*020P0A	TAS224*035P0A*	
.27	TAS274K006P0A	TAS274K010P0A	TAS274K015P0A	TAS274K020P0A	TAS274K035P0A*	
.33	TAS334*006P0A	TAS334*010P0A	TAS334*015P0A	TAS334*020P0A	TAS334*035P0A*	TAS334*050P0A
.39	TAS394K006P0A	TAS394K010P0A	TAS394K015P0A	TAS394K020P0A	TAS394K035P0A*	TAS394K050P0A
.47	TAS474*006P0A	TAS474*010P0A	TAS474*015P0A	TAS474*020P0A	TAS474*035P0A*	TAS474*050P0A
.56	TAS564K006P0A	TAS564K010P0A	TAS564K015P0A	TAS564K020P0A	TAS564K035P0A*	TAS564K050P0A
.68	TAS684*006P0A	TAS684*010P0A	TAS684*015P0A	TAS684*020P0A	TAS684*035P0A*	TAS684*050P0A
.82	TAS824K006P0A	TAS824K010P0A	TAS824K015P0A	TAS824K020P0A	TAS824K035P0A*	TAS824K050P0A
1.0	TAS105*006P0A	TAS105*010P0A	TAS105*015P0A	TAS105*020P0A	TAS105*035P0A*	TAS105*050P0A
1.2	TAS125K006P0A	TAS125K010P0A	TAS125K015P0A	TAS125K020P0A*	TAS125K035P0C*	TAS125K050P0C
1.5	TAS155*006P0A	TAS155*010P0A	TAS155*015P0A	TAS155*020P0A*	TAS155*035P0C*	TAS155*050P0C
1.8	TAS185K006P0A	TAS185K010P0A	TAS185K015P0A	TAS185K020P0A*	TAS185K035P0C*	TAS185K050P0C
2.2	TAS225*006P0A	TAS225*010P0A	TAS225*015P0A	TAS225*020P0A*	TAS225*035P0C*	TAS225*050P0C
2.7	TAS275K006P0A	TAS275K010P0A	TAS275K015P0A*	TAS275K020P0C	TAS275K035P0C*	TAS275K050P0C
3.3	TAS335*006P0A	TAS335*010P0A	TAS335*015P0A*	TAS335*020P0C	TAS335*035P0C*	TAS335*050P0C
3.9	TAS395K006P0A	TAS395K010P0A*	TAS395K015P0C	TAS395K020P0C	TAS395K035P0C*	TAS395K050P0C
4.7	TAS475*006P0A	TAS475*010P0A*	TAS475*015P0C	TAS475*020P0C	TAS475*035P0C*	TAS475*050P0C
5.6	TAS565K006P0A*	TAS565K010P0C	TAS565K015P0C	TAS565K020P0C	TAS565K035P0C*	TAS565K050P0F
6.8	TAS685*006P0A	TAS685*010P0C	TAS685*015P0C	TAS685*020P0C	TAS685*035P0C*	TAS685*050P0F
8.2	TAS825K006P0C	TAS825K010P0C	TAS825K015P0C	TAS825K020P0C*	TAS825K035P0F*	TAS825K050P0F
10	TAS106*006P0C	TAS106*010P0C	TAS106*015P0C	TAS106*020P0C*	TAS106*035P0F*	TAS106*050P0F
12	TAS126K006P0C	TAS126K010P0C	TAS126K015P0C	TAS126K020P0C*	TAS126K035P0F*	TAS126K050P0F
15	TAS156*006P0C	TAS156*010P0C	TAS156*015P0C	TAS156*020P0C*	TAS156*035P0F*	TAS156*050P0F
18	TAS186K006P0C	TAS186K010P0C	TAS186K015P0C*	TAS186K020P0F	TAS186K035P0F*	TAS186K050P0F
22	TAS226*006P0C	TAS226*010P0C	TAS226*015P0C*	TAS226*020P0F	TAS226*035P0F*	TAS226*050P0G
27	TAS276K006P0C	TAS276K010P0C*	TAS276K015P0F	TAS276K020P0F*	TAS276K035P0G*	
33	TAS336*006P0C	TAS336*010P0C*	TAS336*015P0F	TAS336*020P0F*	TAS336*035P0G*	
39	TAS396K006P0C	TAS396K010P0C*	TAS396K015P0F	TAS396K020P0F*	TAS396K035P0G*	
47	TAS476*006P0C*	TAS476*010P0F	TAS476*015P0F	TAS476*020P0F*	TAS476*035P0G	
56	TAS566K006P0C*	TAS566K010P0F	TAS566K015P0F*	TAS566K020P0G*		
68	TAS686*006P0F	TAS686*010P0F	TAS686*015P0F*	TAS686*020P0G*	TAS686M035P0G	
82	TAS826K006P0F	TAS826K010P0F*	TAS826K015P0G	TAS826K020P0G*		
100	TAS107*006P0F	TAS107*010P0F*	TAS107*015P0G	TAS107*020P0G*		
120	TAS127K006P0F	TAS127K010P0F*	TAS127K015P0G*			
150	TAS157*006P0F*	TAS157*010P0G	TAS157*015P0G*			
180	TAS187K006P0F*	TAS187K010P0G*				
220	TAS227*006P0G	TAS227*010P0G*				
270	TAS277K006P0G*					
330	TAS337*006P0G*					

\*Specify **K** for ±10% tolerance or **M** for ±20%. \*Parent value; Max. WVDC vs. capacity, size and price. †Last letter indicates size; see pricing below.

### TAS AND CS12/13 INDUSTRIAL NET PRICES

Prices shown are for bare metal case types. Add 2c for types with insulating sleeve; add .010" dia. for sleeve.

#### FOR 6, 10, 15, 20 AND 35 WVDC

Case Code †	Case Size, Inches Dia. x L.	WVDC	Capacity Range, μF	For ±10% Tol. (K), Net Each					For ±20% Tol. (M), Net Each				
				1-24	25-49	50-99	100-499	500-999	1-24	25-49	50-99	100-499	500-999
A	.125 x .250	6, 10, 15, 20, 35	.0047-6.8	\$1.32	\$1.05	\$0.73	\$0.60	\$0.51	\$1.29	\$1.03	\$0.70	\$0.57	\$0.48
C	.175 x .438	6, 10, 15, 20, 35	1.2-56	1.53	1.23	.75	.62	.52	1.50	1.20	.72	.59	.49
F	.279 x .650	6, 10, 15, 20, 35	18-180	2.21	1.77	1.33	1.10	.92	2.18	1.74	1.30	1.07	.89
			8.2-22	2.53	2.03	1.40	1.14	.95	2.50	2.00	1.37	1.11	.93
G	.341 x .750	6, 10, 15, 20, 35	56-330	4.48	3.53	2.32	1.89	1.58	4.45	3.50	2.29	1.86	1.55
			27-33	4.53	3.63	2.51	2.03	1.79	4.50	3.60	2.48	2.00	1.68
			39-47	4.73	3.78	2.78	2.27	1.89	4.70	3.75	2.75	2.24	1.86
			68						5.30	4.25	3.14	2.45	2.34

#### FOR 50 WVDC

Case Code	Case Size, Inches Dia. x L.	WVDC	Capacity Range, μF	\$2.45	\$1.97	\$1.66	\$1.43	\$1.29	\$1.90	\$1.50	\$1.28	\$1.09	\$1.00
A	.125 x .250	50	0.47-1.0										
C	.175 x .438	50	1.2-4.7	2.60	2.08	1.75	1.50	1.37	2.00	1.60	1.35	1.15	1.05
F	.279 x .650	50	5.6-18	4.25	3.40	2.88	2.45	2.24	3.25	2.60	2.20	1.89	1.72
G	.341 x .750	50	22	7.95	6.35	5.35	4.58	4.18	6.10	4.90	4.15	3.50	3.22



# Solid Tantalum Capacitors

## MIL-C-26655A, CS12 AND CS13

For bare metal case, order CS12 as listed. For insulating sleeve, specify CS13.

6 WVDC		
Cap., $\mu$ F	Mallory Number	Size
5.6	CS12AB5R6K	A
6.8	CS12AB6R8*	A
47	CS12AB470*	C
56	CS12AB560K	C
150	CS12AB151*	C
180	CS12AB181K	F
270	CS12AB271K	F
330	CS12AB331*	G

10 WVDC		
Cap., $\mu$ F	Mallory Number	Size
3.9	CS12AC3R9K	A
4.7	CS12AC4R7*	A
27	CS12AC270K	C
33	CS12AC330*	C
39	CS12AC390K	C
82	CS12AC820K	F
100	CS12AC101*	F
120	CS12AC121K	F
180	CS12AC181K	G
220	CS12AC221*	G

15 WVDC		
Cap., $\mu$ F	Mallory Number	Size
2.7	CS12AD2R7K	A
3.3	CS12AD3R3*	A
18	CS12AD180K	C
22	CS12AD220*	C
56	CS12AD560K	F
68	CS12AD680*	F
120	CS12AD121K	G
150	CS12AD151*	G

20 WVDC		
Cap., $\mu$ F	Mallory Number	Size
1.2	CS12AE1R2K	A
1.5	CS12AE1R5*	A
1.8	CS12AE1R8K	A
2.2	CS12AE2R2*	A
8.2	CS12AE8R2K	C
10	CS12AE100*	C
12	CS12AE120K	C
15	CS12AE150*	C
27	CS12AE270K	F
33	CS12AE330*	F
39	CS12AE390K	F
47	CS12AE470*	F
56	CS12AE560K	G
68	CS12AE680*	G
82	CS12AE820K	G
100	CS12AE101*	G

35 WVDC		
Cap., $\mu$ F	Mallory Number	Size
.33	CS12AFR33*	A
.39	CS12AFR39K	A
.47	CS12AFR47*	A
.56	CS12AFR56K	A
.68	CS12AFR68*	A
.82	CS12AFR82K	A
1.0	CS12AF010*	A
1.2	CS12AF1R2K	C
1.5	CS12AF1R5*	C
1.8	CS12AF1R8K	C
2.2	CS12AF2R2*	C
2.7	CS12AF2R7K	C
3.3	CS12AF3R3*	C
3.9	CS12AF3R9K	C
4.7	CS12AF4R7*	C
5.6	CS12AF5R6K	C
6.8	CS12AF6R8*	C
8.2	CS12AF8R2K	F
10	CS12AF100*	F
12	CS12AF120K	F
15	CS12AF150*	F
18	CS12AF180K	F
22	CS12AF220*	F
27	CS12AF270K	G
33	CS12AF330*	G
39	CS12AF390K	G
47	CS12AF470*	G

50 WVDC		
Cap., $\mu$ F	Mallory Number	Size
1.0	CS12AG010*	A
1.2	CS12AG1R2K	C
1.5	CS12AG1R5*	C
1.8	CS12AG1R8K	C
2.2	CS12AG2R2*	C
2.7	CS12AG2R7K	C
3.3	CS12AG3R3*	C
3.9	CS12AG3R9K	C
4.7	CS12AG4R7*	C
5.6	CS12AG5R6K	F
6.8	CS12AG6R8*	F
8.2	CS12AG8R2K	F
10	CS12AG100*	F
12	CS12AG120K	F
15	CS12AG150*	F
18	CS12AG180K	F
22	CS12AG220*	G

\*Specify tolerance: K =  $\pm 10\%$ ; M =  $\pm 20\%$ . For case sizes, see pricing table.

SEE PREVIOUS PAGE FOR PRICING, CASE SIZE AND ORDERING INFORMATION

## MIL-C-26655B, CS12 AND CS13

For bare metal case, order CS12 as listed. For insulating sleeve, specify CS13.

6 WVDC		
Cap., $\mu$ F	Mallory Number	Size
5.6	CS12BB565K	A
6.8	CS12BB685*	A
47	CS12BB476*	C
56	CS12BB566K	C
150	CS12BB157*	F
180	CS12BB187K	F
270	CS12BB277K	G
330	CS12BB337*	G

10 WVDC		
Cap., $\mu$ F	Mallory Number	Size
3.9	CS12BC395K	A
4.7	CS12BC475*	A
27	CS12BC276K	C
33	CS12BC336*	C
39	CS12BC396K	C
82	CS12BC826K	F
100	CS12BC107*	F
120	CS12BC127K	F
180	CS12BC187K	G
220	CS12BC227*	G

15 WVDC		
Cap., $\mu$ F	Mallory Number	Size
2.7	CS12BD275K	A
3.3	CS12BD335*	A
18	CS12BD186K	C
22	CS12BD226*	C
56	CS12BD566K	F
68	CS12BD686*	F
120	CS12BD127K	G
150	CS12BD157*	G

20 WVDC		
Cap., $\mu$ F	Mallory Number	Size
1.2	CS12BE125K	A
1.5	CS12BE155*	A
1.8	CS12BE185K	A
2.2	CS12BE225*	A
8.2	CS12BE825K	C
10	CS12BE106*	C
12	CS12BE126K	C
15	CS12BE156*	C
27	CS12BE276K	F
33	CS12BE336*	F
39	CS12BE396K	F
47	CS12BE476*	F
56	CS12BE566K	G
68	CS12BE686*	G
82	CS12BE826K	G
100	CS12BE107*	G

35 WVDC		
Cap., $\mu$ F	Mallory Number	Size
.33	CS12BF334*	A
.39	CS12BF394K	A
.47	CS12BF474*	A
.56	CS12BF564K	A
.68	CS12BF684*	A
.82	CS12BF824K	A
1.0	CS12BF105*	A
1.2	CS12BF125K	C
1.5	CS12BF155*	C
1.8	CS12BF185K	C
2.2	CS12BF225*	C
2.7	CS12BF275K	C
3.3	CS12BF335*	C
3.9	CS12BF395K	C
4.7	CS12BF475*	C
5.6	CS12BF565K	C
6.8	CS12BF685*	C
8.2	CS12BF825K	F
10	CS12BF106*	F
12	CS12BF126K	F
15	CS12BF156*	F
18	CS12BF186K	F
22	CS12BF226*	F
27	CS12BF276K	G
33	CS12BF336*	G
39	CS12BF396K	G
47	CS12BF476*	G

50 WVDC		
Cap., $\mu$ F	Mallory Number	Size
1.0	CS12BG105*	A
1.2	CS12BG125K	C
1.5	CS12BG155*	C
1.8	CS12BG185K	C
2.2	CS12BG225*	C
2.7	CS12BG275K	C
3.3	CS12BG335*	C
3.9	CS12BG395K	C
4.7	CS12BG475*	C
5.6	CS12BG565K	F
6.8	CS12BG685*	F
8.2	CS12BG825K	F
10	CS12BG106*	F
12	CS12BG126K	F
15	CS12BG156*	F
18	CS12BG186K	F
22	CS12BG226*	G

\*Specify tolerance: K =  $\pm 10\%$ ; M =  $\pm 20\%$ . For case sizes, see pricing table.

SEE PREVIOUS PAGE FOR PRICING, CASE SIZE AND ORDERING INFORMATION

## TAS 75 AND 100 WVDC

Higher voltage versions of the TAS types listed on the previous page. Case sizes remain the same as the lower voltage versions. Furnished in hermetically sealed metal cases for maximum environmental

protection. Available with shrink-fit insulating sleeve (change 12th digit from 0 to 1, and add 2c to prices shown below. For complete technical details, ask for Bulletin 4-40.

75 WVDC		
Cap., $\mu$ F	Mallory Number	Size†
.47	TAS474*075P0A	A
.56	TAS564K075P0A	A
.68	TAS684*075P0A	A
.82	TAS824K075P0C	C
1.0	TAS105*075P0C	C
1.2	TAS125K075P0C	C
1.5	TAS155*075P0C	C
1.8	TAS185K075P0C	C
2.2	TAS225*075P0C	C
2.7	TAS275K075P0C	C
3.3	TAS335*075P0C	C

\*Specify K for  $\pm 10\%$  tol., M for  $\pm 20\%$ .

†CASE SIZES		
Size	Uninsulated	Insulated
A	.125 x .250	.135 x .286
C	.175 x .438	.185 x .474

$\pm 10\%$ TOLERANCE					
Net Each, Lots of					
†	1-24	25-49	50-99	100-499	500-999
A	\$6.10	\$3.50	\$2.65	\$2.10	\$1.93
C	6.45	3.70	2.75	2.20	2.02

$\pm 20\%$ TOLERANCE					
A	\$4.70	\$2.70	\$2.05	\$1.60	\$1.48
C	4.95	2.85	2.15	1.70	1.55

100 WVDC		
Cap., $\mu$ F	Mallory Number	Size†
.47	TAS474*100P0A	A
.56	TAS564K100P0A	A
.68	TAS684*100P0C	C
.82	TAS824K100P0C	C
1.0	TAS105*100P0C	C
1.2	TAS125K100P0C	C
1.5	TAS155*100P0C	C
1.8	TAS185K100P0C	C
2.2	TAS225*100P0C	C
2.7	TAS275K100P0C	C

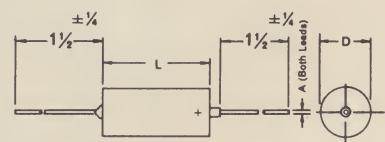
\*Specify K for  $\pm 10\%$  tol., M for  $\pm 20\%$ .

†CASE SIZES		
Size	Uninsulated	Insulated
A	.125 x .250	.135 x .286
C	.175 x .438	.185 x .474

$\pm 10\%$ TOLERANCE					
Net Each, Lots of					
†	1-24	25-49	50-99	100-499	500-999
A	\$7.95	\$4.55	\$3.40	\$2.70	\$2.50
C	8.40	4.80	3.60	2.85	2.63

$\pm 20\%$ TOLERANCE					
A	\$6.10	\$3.50	\$2.65	\$2.10	\$1.93
C	6.45	3.70	2.75	2.20	2.02

## TAS DIMENSIONS



## 4 TAS CASE SIZES

CASE CODE		Uninsulated Case Dimensions		Shrink-Fit Insulated Case Dimensions	
Mil-C-26655A	Mallory	D $\pm .016$ — .010	L $\pm .031$	D $\pm .016$ — .015	L $\pm .031$
A	A	.125	.250	.135	.286
B	C	.175	.438	.185	.474
C	F	.279	.650	.289	.686
D	G	.341	.750	.351	.786



# •CSR Tantalum Capacitors

## TYPE CSR13 SOLID ELECTROLYTE TANTALUM CAPACITORS TO MIL-C-39003/01, FRL (FAILURE RATE LEVEL) "M" (1%)

Established reliability design is hermetically sealed with plastic insulating sleeve. Meet MIL-C-39003A specifications. Life test, 10,000 hours. High reliability, low DC leakage and low impedance. Temperature range, -55° C to +125° C. Leads may be welded or soldered; are tinned nickel, type N1 of MIL-STD-1276.

### STOCK VALUES FRL (FAILURE RATE LEVEL) "M"—1% PER 1000 HOURS

Cap., μF	Tol.	WVDC at +85° C	MIL and Mallory No.	MIL Dash No.	Size †	Cap., μF	Tol.	WVDC at +85° C	MIL and Mallory No.	MIL Dash No.	Size †
5.6	±10%	6	CSR13B565KM	-2241	A	39	±10%	35	CSR13F396KM	-2311	D
6.8	±10%	6	CSR13B685KM	-2242	A	47	±10%	35	CSR13F476KM	-2312	D
6.8	±20%	6	CSR13B685MM	-2243	A	47	±20%	35	CSR13F476MM	-2313	D
47	±10%	6	CSR13B476KM	-2244	B	.0047	±10%	50	CSR13G472KM	-2314	A
47	±20%	6	CSR13B476MM	-2245	B	.0047	±20%	50	CSR13G472MM	-2315	A
56	±10%	6	CSR13B566KM	-2246	B	.0056	±10%	50	CSR13G562KM	-2316	A
150	±10%	6	CSR13B157KM	-2247	C	.0068	±10%	50	CSR13G682KM	-2317	A
150	±20%	6	CSR13B157MM	-2248	C	.0068	±20%	50	CSR13G682MM	-2318	A
180	±10%	6	CSR13B187KM	-2249	C	.0082	±10%	50	CSR13G822KM	-2319	A
270	±10%	6	CSR13B277KM	-2250	D	.01	±10%	50	CSR13G103KM	-2320	A
330	±10%	6	CSR13B337KM	-2251	D	.01	±20%	50	CSR13G103MM	-2321	A
330	±20%	6	CSR13B337MM	-2252	D	.012	±10%	50	CSR13G123KM	-2322	A
3.9	±10%	10	CSR13C395KM	-2253	A	.015	±10%	50	CSR13G153KM	-2323	A
4.7	±10%	10	CSR13C475KM	-2254	A	.015	±20%	50	CSR13G153MM	-2324	A
4.7	±20%	10	CSR13C475MM	-2255	A	.018	±10%	50	CSR13G183KM	-2325	A
27	±10%	10	CSR13C276KM	-2256	B	.022	±10%	50	CSR13G223KM	-2326	A
33	±10%	10	CSR13C336KM	-2257	B	.022	±20%	50	CSR13G223MM	-2327	A
33	±20%	10	CSR13C336MM	-2258	B	.027	±10%	50	CSR13G273KM	-2328	A
39	±10%	10	CSR13C396KM	-2259	B	.033	±10%	50	CSR13G333KM	-2329	A
82	±10%	10	CSR13C826KM	-2260	C	.033	±20%	50	CSR13G333MM	-2330	A
100	±10%	10	CSR13C107KM	-2261	C	.039	±10%	50	CSR13G393KM	-2331	A
100	±20%	10	CSR13C107MM	-2262	C	.047	±10%	50	CSR13G473KM	-2332	A
120	±10%	10	CSR13C127KM	-2263	C	.047	±20%	50	CSR13G473MM	-2333	A
180	±10%	10	CSR13C187KM	-2264	D	.056	±10%	50	CSR13G563KM	-2334	A
220	±10%	10	CSR13C227KM	-2265	D	.068	±10%	50	CSR13G683KM	-2335	A
220	±20%	10	CSR13C227MM	-2266	D	.068	±20%	50	CSR13G683MM	-2336	A
2.7	±10%	15	CSR13D275KM	-2267	A	.082	±10%	50	CSR13G823KM	-2337	A
3.3	±10%	15	CSR13D335KM	-2268	A	.1	±10%	50	CSR13G104KM	-2338	A
3.3	±20%	15	CSR13D335MM	-2269	A	.1	±20%	50	CSR13G104MM	-2339	A
18	±10%	15	CSR13D186KM	-2270	B	.12	±10%	50	CSR13G124KM	-2340	A
22	±10%	15	CSR13D226KM	-2271	B	.15	±10%	50	CSR13G154KM	-2341	A
22	±20%	15	CSR13D226MM	-2272	B	.15	±20%	50	CSR13G154MM	-2342	A
56	±10%	15	CSR13D566KM	-2273	C	.18	±10%	50	CSR13G184KM	-2343	A
68	±10%	15	CSR13D686KM	-2274	C	.22	±10%	50	CSR13G224KM	-2344	A
68	±20%	15	CSR13D686MM	-2275	C	.22	±20%	50	CSR13G224MM	-2345	A
120	±10%	15	CSR13D127KM	-2276	D	.27	±10%	50	CSR13G274KM	-2346	A
150	±10%	15	CSR13D157KM	-2277	D	.33	±10%	50	CSR13G334KM	-2347	A
150	±20%	15	CSR13D157MM	-2278	D	.33	±20%	50	CSR13G334MM	-2348	A
1.2	±10%	20	CSR13E125KM	-2279	A	.39	±10%	50	CSR13G394KM	-2349	A
1.5	±10%	20	CSR13E155KM	-2280	A	.47	±10%	50	CSR13G474KM	-2350	A
1.5	±20%	20	CSR13E155MM	-2281	A	.56	±20%	50	CSR13G474MM	-2351	A
1.8	±10%	20	CSR13E185KM	-2282	A	.68	±10%	50	CSR13G564KM	-2352	A
2.2	±10%	20	CSR13E225KM	-2283	A	.68	±20%	50	CSR13G684KM	-2353	A
2.2	±20%	20	CSR13E225MM	-2284	A	.82	±10%	50	CSR13G824KM	-2354	A
8.2	±10%	20	CSR13E825KM	-2285	B	1.0	±10%	50	CSR13G105KM	-2355	A
10	±10%	20	CSR13E106KM	-2286	B	1.0	±20%	50	CSR13G105MM	-2356	A
10	±20%	20	CSR13E106MM	-2287	B	1.2	±10%	50	CSR13G125KM	-2357	B
12	±10%	20	CSR13E126KM	-2288	B	1.5	±10%	50	CSR13G155KM	-2358	B
15	±10%	20	CSR13E156KM	-2289	B	1.5	±20%	50	CSR13G155MM	-2359	B
15	±20%	20	CSR13E156MM	-2290	B	1.8	±10%	50	CSR13G185KM	-2360	B
27	±10%	20	CSR13E276KM	-2291	C	2.2	±10%	50	CSR13G225KM	-2361	B
33	±10%	20	CSR13E336KM	-2292	C	2.2	±20%	50	CSR13G225MM	-2362	B
33	±20%	20	CSR13E336MM	-2293	C	2.7	±10%	50	CSR13G275KM	-2363	B
39	±10%	20	CSR13E396KM	-2294	C	3.3	±10%	50	CSR13G335KM	-2364	B
47	±10%	20	CSR13E476KM	-2295	C	3.3	±20%	50	CSR13G335MM	-2365	B
47	±20%	20	CSR13E476MM	-2296	C	3.9	±10%	50	CSR13G395KM	-2366	B
56	±10%	20	CSR13E566KM	-2297	D	4.7	±10%	50	CSR13G475KM	-2367	B
68	±10%	20	CSR13E686KM	-2298	D	4.7	±20%	50	CSR13G475MM	-2368	B
68	±20%	20	CSR13E686MM	-2299	D	5.6	±10%	50	CSR13G565KM	-2369	B
82	±10%	20	CSR13E826KM	-2300	D	6.8	±10%	50	CSR13G685KM	-2370	C
100	±10%	20	CSR13E107KM	-2301	D	6.8	±20%	50	CSR13G685MM	-2371	C
100	±20%	20	CSR13E107MM	-2302	D	8.2	±10%	50	CSR13G825KM	-2372	C
5.6	±10%	35	CSR13F565KM	-2303	B	10	±10%	50	CSR13G106KM	-2373	C
6.8	±10%	35	CSR13F685KM	-2304	B	10	±20%	50	CSR13G106MM	-2374	C
6.8	±20%	35	CSR13F685MM	-2305	B	12	±10%	50	CSR13G126KM	-2375	C
22	±10%	35	CSR13F226KM	-2306	C	15	±10%	50	CSR13G156KM	-2376	C
22	±20%	35	CSR13F226MM	-2307	C	15	±20%	50	CSR13G156MM	-2377	C
27	±10%	35	CSR13F276KM	-2308	D	18	±10%	50	CSR13G186KM	-2378	C
33	±10%	35	CSR13F336KM	-2309	D	22	±10%	50	CSR13G226KM	-2379	D
33	±20%	35	CSR13F336MM	-2310	D	22	±20%	50	CSR13G226MM	-2380	D
										-2381	D

### †NET PRICES BY CASE SIZE, VOLTAGE AND TOLERANCE

Voltage	† Case	Size, Inches Dia. x Lgth.	±10% Tolerance Net Each, Lots of					±20% Tolerance Net Each, Lots of				
			1-24	25-49	50-99	100-499	500-999	1-24	25-49	50-99	100-499	500-999
6, 10, 15, 20 and 35 WVDC	A	.135 x .286	\$ 1.99	\$1.60	\$1.10	\$0.90	\$0.77	\$1.94	\$1.53	\$1.06	\$0.85	\$0.71
	B	.185 x .474	2.34	1.88	1.13	.93	.78	2.29	1.82	1.09	.88	.74
	C	.289 x .686	3.83	3.08	2.11	1.72	1.45	3.79	3.00	2.05	1.67	1.40
	D	.351 x .786	7.10	5.66	4.20	3.40	2.85	7.07	5.57	4.17	3.36	2.79
50 WVDC	A	.135 x .286	3.69	2.95	2.49	2.15	1.93	2.86	2.27	1.94	1.63	1.62
	B	.185 x .474	3.91	3.11	2.63	2.25	2.05	3.00	2.39	2.04	1.73	1.68
	C	.289 x .686	6.40	5.10	4.34	3.69	3.35	4.93	3.94	3.35	2.83	2.80
	D	.351 x .786	11.95	9.54	8.07	6.86	6.28	9.19	7.34	6.23	5.27	4.84



# • CSR Tantalum Capacitors

## TYPE CSR13 SOLID ELECTROLYTE TANTALUM CAPACITORS TO MIL-C-39003/01, FRL (FAILURE RATE LEVEL) "L" (2%)

Established reliability, low leakage and low impedance. Hermetically sealed with plastic insulating sleeve. Meet MIL-C-39003A specifications. Life test, 10,000 hours. Temperature range, -55° C to +125° C. Leads may be welded or soldered; are tinned nickel, type N1 of MIL-STD-1276.

### STOCK VALUES FRL (FAILURE RATE LEVEL) "L"—2% PER 1000 HOURS

Cap., μF	Tol.	WVDC at +85° C	MIL and Mallory No.	MIL Dash No.	Size †	Cap., μF	Tol.	WVDC at +85° C	MIL and Mallory No.	MIL Dash No.	Size †
5.6	±10%	6	CSR13B565KL	-2001	A	39	±10%	35	CSR13F396KL	-2071	D
6.8	±10%	6	CSR13B685KL	-2002	A	47	±10%	35	CSR13F476KL	-2072	D
6.8	±20%	6	CSR13B685ML	-2003	A	47	±20%	35	CSR13F476ML	-2073	D
47	±10%	6	CSR13B476KL	-2004	B	.0047	±10%	50	CSR13G472KL	-2074	A
47	±20%	6	CSR13B476ML	-2005	B	.0047	±20%	50	CSR13G472ML	-2075	A
56	±10%	6	CSR13B566KL	-2006	B	.0056	±10%	50	CSR13G562KL	-2076	A
150	±10%	6	CSR13B157KL	-2007	C	.0068	±10%	50	CSR13G682KL	-2077	A
150	±20%	6	CSR13B157ML	-2008	C	.0068	±20%	50	CSR13G682ML	-2078	A
180	±10%	6	CSR13B187KL	-2009	C	.0082	±10%	50	CSR13G822KL	-2079	A
270	±10%	6	CSR13B277KL	-2010	D	.01	±10%	50	CSR13G103KL	-2080	A
330	±10%	6	CSR13B337KL	-2011	D	.01	±20%	50	CSR13G103ML	-2081	A
330	±20%	6	CSR13B337ML	-2012	D	.012	±10%	50	CSR13G123KL	-2082	A
3.9	±10%	10	CSR13C395KL	-2013	A	.015	±10%	50	CSR13G153KL	-2083	A
4.7	±10%	10	CSR13C475KL	-2014	A	.015	±20%	50	CSR13G153ML	-2084	A
4.7	±20%	10	CSR13C475ML	-2015	A	.018	±10%	50	CSR13G183KL	-2085	A
27	±10%	10	CSR13C276KL	-2016	B	.022	±10%	50	CSR13G223KL	-2086	A
33	±10%	10	CSR13C336KL	-2017	B	.022	±20%	50	CSR13G223ML	-2087	A
33	±20%	10	CSR13C336ML	-2018	B	.027	±10%	50	CSR13G273KL	-2088	A
39	±10%	10	CSR13C396KL	-2019	B	.033	±10%	50	CSR13G333KL	-2089	A
82	±10%	10	CSR13C826KL	-2020	C	.033	±20%	50	CSR13G333ML	-2090	A
100	±10%	10	CSR13C107KL	-2021	C	.039	±10%	50	CSR13G393KL	-2091	A
100	±20%	10	CSR13C107ML	-2022	C	.047	±10%	50	CSR13G473KL	-2092	A
120	±10%	10	CSR13C127KL	-2023	C	.047	±20%	50	CSR13G473ML	-2093	A
180	±10%	10	CSR13C187KL	-2024	D	.056	±10%	50	CSR13G563KL	-2094	A
220	±10%	10	CSR13C227KL	-2025	D	.068	±10%	50	CSR13G683KL	-2095	A
220	±20%	10	CSR13C227ML	-2026	D	.068	±20%	50	CSR13G683ML	-2096	A
2.7	±10%	15	CSR13D275KL	-2027	A	.082	±10%	50	CSR13G823KL	-2097	A
3.3	±10%	15	CSR13D335KL	-2028	A	.1	±10%	50	CSR13G104KL	-2098	A
3.3	±20%	15	CSR13D335ML	-2029	A	.12	±20%	50	CSR13G104ML	-2099	A
18	±10%	15	CSR13D186KL	-2030	B	.15	±10%	50	CSR13G124KL	-2100	A
22	±10%	15	CSR13D226KL	-2031	B	.15	±20%	50	CSR13G154KL	-2101	A
22	±20%	15	CSR13D226ML	-2032	B	.18	±10%	50	CSR13G154ML	-2102	A
56	±10%	15	CSR13D566KL	-2033	C	.22	±10%	50	CSR13G184KL	-2103	A
68	±10%	15	CSR13D686KL	-2034	C	.22	±20%	50	CSR13G224KL	-2104	A
68	±20%	15	CSR13D686ML	-2035	C	.27	±10%	50	CSR13G224ML	-2105	A
120	±10%	15	CSR13D127KL	-2036	D	.33	±10%	50	CSR13G274KL	-2106	A
150	±10%	15	CSR13D157KL	-2037	D	.33	±20%	50	CSR13G334KL	-2107	A
150	±20%	15	CSR13D157ML	-2038	D	.39	±10%	50	CSR13G334ML	-2108	A
1.2	±10%	20	CSR13E125KL	-2039	A	.47	±10%	50	CSR13G394KL	-2109	A
1.5	±10%	20	CSR13E155KL	-2040	A	.47	±20%	50	CSR13G474KL	-2110	A
1.5	±20%	20	CSR13E155ML	-2041	A	.56	±10%	50	CSR13G474ML	-2111	A
1.8	±10%	20	CSR13E185KL	-2042	A	.68	±10%	50	CSR13G564KL	-2112	A
2.2	±10%	20	CSR13E225KL	-2043	A	.68	±20%	50	CSR13G684KL	-2113	A
2.2	±20%	20	CSR13E225ML	-2044	A	.82	±10%	50	CSR13G684ML	-2114	A
8.2	±10%	20	CSR13E825KL	-2045	B	1.0	±10%	50	CSR13G824KL	-2115	A
10	±10%	20	CSR13E106KL	-2046	B	1.0	±20%	50	CSR13G105KL	-2116	A
10	±20%	20	CSR13E106ML	-2047	B	1.2	±10%	50	CSR13G105ML	-2117	A
12	±10%	20	CSR13E126KL	-2048	B	1.5	±10%	50	CSR13G125KL	-2118	B
15	±10%	20	CSR13E156KL	-2049	B	1.5	±20%	50	CSR13G155KL	-2119	B
15	±20%	20	CSR13E156ML	-2050	B	1.8	±10%	50	CSR13G155ML	-2120	B
27	±10%	20	CSR13E276KL	-2051	C	2.2	±10%	50	CSR13G185KL	-2121	B
33	±10%	20	CSR13E336KL	-2052	C	2.2	±20%	50	CSR13G225KL	-2122	B
33	±20%	20	CSR13E336ML	-2053	C	2.7	±10%	50	CSR13G225ML	-2123	B
39	±10%	20	CSR13E396KL	-2054	C	3.3	±10%	50	CSR13G275KL	-2124	B
47	±10%	20	CSR13E476KL	-2055	C	3.3	±20%	50	CSR13G335KL	-2125	B
47	±20%	20	CSR13E476ML	-2056	C	3.9	±10%	50	CSR13G335ML	-2126	B
56	±10%	20	CSR13E566KL	-2057	D	4.7	±10%	50	CSR13G395KL	-2127	B
68	±10%	20	CSR13E686KL	-2058	D	4.7	±20%	50	CSR13G475KL	-2128	B
68	±20%	20	CSR13E686ML	-2059	D	5.6	±10%	50	CSR13G475ML	-2129	B
82	±10%	20	CSR13E826KL	-2060	D	6.8	±10%	50	CSR13G565KL	-2130	C
100	±10%	20	CSR13E107KL	-2061	D	6.8	±20%	50	CSR13G685KL	-2131	C
100	±20%	20	CSR13E107ML	-2062	D	8.2	±10%	50	CSR13G685ML	-2132	C
5.6	±10%	35	CSR13F565KL	-2063	B	10	±10%	50	CSR13G825KL	-2133	C
6.8	±10%	35	CSR13F685KL	-2064	B	10	±20%	50	CSR13G106KL	-2134	C
6.8	±20%	35	CSR13F685ML	-2065	B	12	±10%	50	CSR13G106ML	-2135	C
22	±10%	35	CSR13F226KL	-2066	C	15	±10%	50	CSR13G126KL	-2136	C
22	±20%	35	CSR13F226ML	-2067	C	15	±20%	50	CSR13G156KL	-2137	C
27	±10%	35	CSR13F276KL	-2068	D	18	±10%	50	CSR13G186KL	-2138	C
33	±10%	35	CSR13F336KL	-2069	D	22	±10%	50	CSR13G226KL	-2139	D
33	±20%	35	CSR13F336ML	-2070	D	22	±20%	50	CSR13G226ML	-2140	D
										-2141	D

### †NET PRICES BY CASE SIZE, VOLTAGE AND TOLERANCE

Voltage	† Case	Size, Inches Dia. x Lgth.	±10% Tolerance Net Each, Lots of					±20% Tolerance Net Each, Lots of				
			1-24	25-49	50-99	100-499	500-999	1-24	25-49	50-99	100-499	500-999
6, 10, 15, 20 and 35 WVDC	A	.135 x .286	\$1.48	\$1.17	\$0.80	\$0.65	\$0.58	\$1.42	\$1.13	\$0.78	\$0.62	\$0.52
	B	.185 x .474	1.71	1.37	.83	.69	.67	1.68	1.34	.79	.64	.54
	C	.289 x .686	2.82	2.25	1.55	1.25	1.06	2.77	2.22	1.61	1.22	1.03
	D	.351 x .786	5.21	4.15	3.08	2.49	2.09	5.19	4.12	3.06	2.46	2.05
50 WVDC	A	.135 x .286	2.71	2.17	1.83	1.58	1.42	2.09	1.66	1.42	1.20	1.10
	B	.185 x .474	2.86	2.29	1.94	1.65	1.52	2.20	1.76	1.50	1.27	1.16
	C	.289 x .686	4.70	3.76	3.19	2.70	2.47	3.60	2.89	2.45	2.08	1.91
	D	.351 x .786	8.76	7.00	5.92	5.03	4.61	6.75	5.39	4.57	3.87	3.55



# Tantalum Foil, Capacitors

Mallory tantalum foil capacitors are available in either **etched** or **plain foil, polarized** or **non-polarized**, and in two temperature grades (**+85° C** or **+125° C**). Standard ratings shown below and on the next page are listed with **uninsulated** cases. For **insulating** sleeve, add "one" to type shown (CL20 becomes CL21, etc.) and

add **10c** to prices shown. Case sizes, tolerances and industrial net prices are shown in the table at the bottom of this page. These capacitors are also available to Mallory commercial numbers (TAF, TAG, TBF, TBG, etc.). For details on these numbers ask for Technical Bulletin 4-65.

## ETCHED FOIL TO MIL-C-3965

-55° C TO +125° C

### CL20/21 POLARIZED

Cap., μF	WVDC at Max. Temp.	Mallory Number	Size Code	Maximum DCL Microamps		Max. Imped. at -55° C 120CPS (Ohms)
				25° C	125° C	
15	10	CL20CD150UP3	A2	2	4	480
60	10	CL20CD600UP3	B4	2.5	10	120
200	10	CL20CD201UP3	C4	3	50	36
400	10	CL20CD401UP3	D4	6	80	18
580	10	CL20CD581UP3	E4	9	100	12
10	15	CL20CE100UP3	A2	2	4	720
40	15	CL20CE400UP3	B4	2.5	15	180
120	15	CL20CE121UP3	C4	3	40	58
250	15	CL20CE251UP3	D4	6	90	29
350	15	CL20CE351UP3	E4	12	100	21
4.5	30	CL20CH4R5TP3	A2	2	4	754
18	30	CL20CH180TP3	B4	2	14	188
60	30	CL20CH600TP3	C4	3	50	57
100	30	CL20CH101TP3	D4	4	75	34
150	30	CL20CH151TP3	E4	5	112	23
3	50	CL20CJ030TP3	A2	2	4	1128
12	50	CL20CJ120TP3	B4	2	14	282
30	50	CL20CJ300TP3	C4	3	34	113
70	50	CL20CJ700TP3	D4	7.5	80	49
100	50	CL20CJ101TP3	E4	13	112	34
2	60	CL20CK020TP3	A2	2	4	1690
8	60	CL20CK080TP3	B4	2	12	424
25	60	CL20CK250TP3	C4	2.5	37	136
50	60	CL20CK500TP3	D4	5	75	68
70	60	CL20CK700TP3	E4	7	105	48
1	100	CL20CN010SP3	A2	2	4	3385
4	100	CL20CN040SP3	B4	2	14	847
13	100	CL20CN130SP3	C4	4	30	260
25	100	CL20CN250SP3	D4	5	80	135
36	100	CL20CN360SP3	E4	8	112	94

### CL22/23 NON-POLARIZED

Cap., μF	WVDC at Max. Temp.	Mallory Number	Size Code	Maximum DCL Microamps		Max. Imped. at -55° C 120CPS (Ohms)
				25° C	125° C	
10	10	CL22CD100UN3	A2	2	4	720
40	10	CL22CD400UN3	B4	2	10	180
120	10	CL22CD121UN3	C4	3	50	58
250	10	CL22CD251UN3	D4	6	80	29
350	10	CL22CD351UN3	E4	9	100	21
5	15	CL22CE050UN3	A2	2	4	1440
20	15	CL22CE200UN3	B4	2.5	15	360
70	15	CL22CE700UN3	C4	3	40	103
140	15	CL22CE141UN3	D4	6	90	52
200	15	CL22CE201UN3	E4	12	100	36
2.5	30	CL22CH2R5TN3	A2	2	4	1355
10	30	CL22CH100TN3	B4	2	14	339
30	30	CL22CH300TN3	C4	3	50	113
60	30	CL22CH600TN3	D4	4	75	57
80	30	CL22CH800TN3	E4	5	112	42
1.5	50	CL22CJ1R5TN3	A2	2	4	1487
6	50	CL22CJ060TN3	B4	2	14	560
15	50	CL22CJ150TN3	C4	3	34	226
35	50	CL22CJ350TN3	D4	4.5	80	97
50	50	CL22CJ500TN3	E4	13	112	68
1	60	CL22CK010TN3	A2	2	4	3385
4	60	CL22CK040TN3	B4	2	12	845
12	60	CL22CK120TN3	C4	2.5	37	282
25	60	CL22CK250TN3	D4	5	75	136
35	60	CL22CK350TN3	E4	7	105	97
0.5	100	CL22CN0R5SN3	A2	2	4	5770
2	100	CL22CN020SN3	B4	2	14	1693
6	100	CL22CN060SN3	C4	4	30	564
12	100	CL22CN120SN3	D4	5	80	282
18	100	CL22CN180SN3	E4	8	112	188

-55° C TO +85° C

### CL24/25 POLARIZED

Cap., μF	WVDC at Max. Temp.	Mallory Number	Size Code	Maximum DCL Microamps		Max. Imped. at -55° C 120CPS (Ohms)
				25° C	125° C	
15	15	CL24BE150UP3	A1	2	4	226
60	15	CL24BE600UP3	B2	2.5	10	58
200	15	CL24BE201UP3	C2	3	50	17
400	15	CL24BE401UP3	D3	6	80	9
580	15	CL24BE581UP3	E3	9	100	6
10	25	CL24BG100UP3	A1	2	4	339
40	25	CL24BG400UP3	B2	2.5	15	85
120	25	CL24BG121UP3	C2	3	40	27
250	25	CL24BG251UP3	D3	6	90	14
350	25	CL24BG351UP3	E3	12	100	10
8	30	CL24BH080UP3	A1	2	6	424
32	30	CL24BH320UP3	B2	2	14	106
110	30	CL24BH111UP3	C2	4	50	31
220	30	CL24BH221UP3	D3	8	90	16
300	30	CL24BH301UP3	E3	11	120	11
4.5	50	CL24BJ4R5TP3	A1	2	4	753
18	50	CL24BJ180TP3	B2	2	14	188
60	50	CL24BJ600TP3	C2	3	50	57
100	50	CL24BJ101TP3	D3	4	75	34
150	50	CL24BJ151TP3	E3	5	112	23
3	75	CL24BL030TP3	A1	2	4	1130
12	75	CL24BL120TP3	B2	2	14	283
30	75	CL24BL300TP3	C2	3	34	113
70	75	CL24BL700TP3	D3	7.5	80	48
100	75	CL24BL101TP3	E3	13	112	34
2	100	CL24BN020SP3	A1	2	4	1690
8	100	CL24BN080SP3	B2	2	12	428
25	100	CL24BN250SP3	C2	2.5	37	135
50	100	CL24BN500SP3	D3	5	75	68
70	100	CL24BN700SP3	E3	7	105	49
1	150	CL24BQ010SP3	A1	2	4	3000
4	150	CL24BQ040SP3	B2	2	14	750
13	150	CL24BQ130SP3	C2	4	30	261
25	150	CL24BQ250SP3	D3	5	80	135
36	150	CL24BQ360SP3	E3	8	112	94

### CL26/27 NON-POLARIZED

Cap., μF	WVDC at Max. Temp.	Mallory Number	Size Code	Maximum DCL Microamps		Max. Imped. at -55° C 120CPS (Ohms)
				25° C	125° C	
10	15	CL26BE100UN3	A1	2	4	339
40	15	CL26BE400UN3	B2	2.5	10	85
120	15	CL26BE121UN3	C2	3	50	27
250	15	CL26BE251UN3	D3	6	80	14
350	15	CL26BE351UN3	E3	9	100	10
5	25	CL26BG050UN3	A1	2	4	680
20	25	CL26BG200UN3	B2	2.5	15	170
70	25	CL26BG700UN3	C2	3	40	49
140	25	CL26BG141UN3	D3	6	90	24
200	25	CL26BG201UN3	E3	12	100	17
4.5	30	CL26BH4R5UN3	A1	2	6	754
18	30	CL26BH180UN3	B2	2	14	188
60	30	CL26BH600UN3	C2	4	50	57
120	30	CL26BH121UN3	D3	8	90	28
170	30	CL26BH171UN3	E3	11	120	20
2.5	50	CL26BJ2R5TN3	A1	2	4	1355
10	50	CL26BJ100TN3	B2	2	14	339
30	50	CL26BJ300TN3	C2	3	50	113
60	50	CL26BJ600TN3	D3	4	75	57
80	50	CL26BJ800TN3	E3	5	112	41
1.5	75	CL26BL1R5TN3	A1	2	4	2255
6	75	CL26BL060TN3	B2	2	14	565
15	75	CL26BL150TN3	C2	3	34	226
35	75	CL26BL350TN3	D3	7.5	80	97
50	75	CL26BL500TN3	E3	13	112	68
1	100	CL26BN010SN3	A1	2	4	3385
4	100	CL26BN040SN3	B2	2	12	845
12	100	CL26BN120SN3	C2	2.5	37	283
25	100	CL26BN250SN3	D3	5	75	135
35	100	CL26BN350SN3	E3	7	105	97
0.5	150	CL26BQ0R5SN3	A1	2	4	6780
2	150	CL26BQ020SN3	B2	2	14	1693
6	150	CL26BQ060SN3	C2	4	30	565
12	150	CL26BQ120SN3	D3	5	80	283
18	150	CL26BQ180SN3	E3	8	112	188

## TANTALUM FOIL CAPACITOR INDUSTRIAL NET PRICES

PARTIAL PRICE LIST - EXTRACT FROM THE CATALOG													
Size Code	Net Each, Lots of*						Size Code	Net Each, Lots of*					
	1-9	10-24	25-49	50-99	100-499	500 Up		1-9	10-24	25-49	50-99	100-499	500 Up
A1	\$ 4.20	\$ 3.33	\$2.42	\$1.70	\$1.19	\$1.03	C5	\$20.50	\$16.10	\$11.12	\$ 7.92	\$ 5.97	\$5.47
A2	7.35	5.18	3.99	2.84	1.96	1.79	C6	23.55	18.53	12.78	9.09	6.87	6.29
A3	10.85	8.55	5.89	4.19	3.16	2.90	D1	14.60	10.03	7.70	5.49	3.78	3.46
A4	12.45	9.79	6.75	4.82	3.62	3.32	D2	18.30	12.87	9.93	7.07	4.85	4.45
B1	6.60	4.51	3.47	2.47	1.70	1.56	D3	20.55	14.11	10.83	7.70	5.31	4.86
B2	7.55	4.94	3.80	2.70	1.87	1.72	D4	24.55	17.29	13.30	9.45	6.55	5.96
B3	9.80	6.89	5.32	3.78	2.59	2.38	D5	25.30	19.95	13.73	9.77	7.38	6.76
B4	10.50	7.36	5.70	4.05	2.79	2.55	D6	29.05	22.85	15.49	11.21	8.46	7.76
B5	14.25	11.21	7.74	5.49	4.14	3.81	E1	19.60	13.44	10.30	7.34	5.06	4.63
B6	16.40	12.92	8.93	6.35	4.79	4.39	E2	23.55	16.57	12.78	9.08	6.25	5.71
C1	10.40	7.17	5.51	3.92	2.68	2.47	E3	27.35	18.76	14.44	10.26	7.10	6.47
C2	12.60	8.65	6.65	4.73	3.27	2.98	E4	31.75	22.37	17.24	12.24	8.46	7.71
C3	14.20	9.98	7.70	5.47	3.78	3.44	E5	31.90	25.13	17.34	12.33	9.30	8.53
C4	16.15	11.40	8.79	6.26	4.29	3.93	E6	36.75	28.95	19.95	14.18	10.71	9.82

\*Add 10c to prices shown for CL21, 23, 25, 27, 31, 33, 35, 37 (Mylar sleeve).

## CASE SIZES

A = 1/4" dia. x 1 1/4"  
B = 1/4" dia. x 1/2"  
C = 1/4" dia. x 1 1/8"  
D = 1/4" dia. x 2 1/8"  
E = 1/4" dia. x 2 3/4"

For insulating sleeve, add .015" to dia. and .063" to length.

## TOLERANCES

K = ±10%; L = ±15%; M = ±20%;  
S = -15+30%; T = -15+30%; U =  
-15+75%. (10th digit of Mallory number.)



# Tantalum Foil Capacitors

## PLAIN FOIL TO MIL-C-3965

Mallory plain foil tantalum capacitors shown on this page are in un-insulated cases. For insulated cases add "one" to the type number shown (CL30 becomes CL31, etc.) and add 10¢ to the

prices shown in the table on the previous page. Case sizes, prices and tolerances are shown on previous page.

-55°C TO +125°C

CL30/31 POLARIZED						CL32/33 NON-POLARIZED							
Cap., µF	WVDC at Max. Temp.	Mallory Number	Size Code	Maximum DCL Microamps		Max. Imped. at - 55° C 120CPS (Ohms)	Cap., µF	WVDC at Max. Temp.	Mallory Number	Size Code	Maximum DCL Microamps		Max. Imped. at - 55° C 120CPS (Ohms)
				25° C	125° C						25° C	125° C	
4.5	10	CL30CD4R5MP3	A2	1	2	495	2.5	10	CL32CD2R5MN3	A2	1	2	893
18	10	CL30CD180MP3	B3	2	4	125	10	10	CL32CD100MN3	B3	2	4	223
55	10	CL30CD550MP3	C3	2	10	41	35	10	CL32CD350MN3	C3	2	10	64
110	10	CL30CD111MP3	D2	4	20	20	70	10	CL32CD700MN3	D2	4	20	32
160	10	CL30CD161MP3	E2	5	30	14	100	10	CL32CD101MN3	E2	5	30	23
3	15	CL30CE030MP3	A2	1	3	744	1.5	15	CL32CE1R5MN3	A2	1	3	1487
12	15	CL30CE120MP3	B3	2	6	186	6	15	CL32CE060MN3	B3	2	6	372
35	15	CL30CE350MP3	C3	2	12	64	20	15	CL32CE200MN3	C3	2	12	112
70	15	CL30CE700MP3	D2	4	25	32	40	15	CL32CE400MN3	D2	4	25	56
100	15	CL30CE101MP3	E2	4	20	23	60	15	CL32CE600MN3	E2	5	36	37
1.5	30	CL30CH1R5MP3	A2	1	4	1487	0.8	30	CL32CH0R8MN3	A2	1	4	2790
6	30	CL30CH060MP3	B3	2	6	372	3	30	CL32CH030MN3	B3	2	6	743
20	30	CL30CH200MP3	C3	2	13	112	10	30	CL32CH100MN3	C3	2	13	223
40	30	CL30CH400MP3	D2	4	26	56	20	30	CL32CH200MN3	D2	4	26	112
55	30	CL30CH550MP3	E2	6	38	41	30	30	CL32CH300MN3	E2	6	38	75
1	50	CL30CJ010MP3	A2	1	4	2255	0.5	50	CL32CJ0R5MN3	A2	1	4	4460
4	50	CL30CJ040MP3	B3	2	6	558	2	50	CL32CJ020MN3	B3	2	6	1115
14	50	CL30CJ140MP3	C3	2	13	159	7	50	CL32CJ070MN3	C3	2	13	319
28	50	CL30CJ280MP3	D2	4	26	80	14	50	CL32CJ140MN3	D2	4	26	159
40	50	CL30CJ400MP3	E2	6	38	56	20	50	CL32CJ200MN3	E2	6	38	112
0.8	60	CL30CK0R8MP3	A2	1	3.5	2790	0.4	60	CL32CK0R4MN3	A2	1	3.5	5580
3	60	CL30CK030MP3	B3	2	6	1115	1.5	60	CL32CK1R5MN3	B3	2	6	1487
10	60	CL30CK100MP3	C3	2	13	223	5	60	CL32CK050MN3	C3	2	13	446
20	60	CL30CK200MP3	D2	3	25	112	10	60	CL32CK100MN3	D2	3	25	223
30	60	CL30CK300MP3	E2	6	38	74	15	60	CL32CK150MN3	E2	6	38	149
0.5	100	CL30CN0R5MP3	A2	2	4	4454	0.25	100	CL32CN0R25MN3	A2	2	4	8908
2	100	CL30CN020MP3	B3	2	6	1115	1	100	CL32CN010MN3	B3	2	6	2227
7	100	CL30CN070MP3	C3	3	13	319	3.5	100	CL32CN3R5MN3	C3	3	13	638
14	100	CL30CN140MP3	D2	4	26	159	7	100	CL32CN070MN3	D2	4	26	319
20	100	CL30CN200MP3	E2	6	38	112	10	100	CL32CN100MN3	E2	6	38	223
0.35	150	CL30CQR35MP3	A2	1	10.5	5000	0.15	150	CL32CQR15MN3	A2	1	10.5	14000
1.5	150	CL30CQ1R5MP3	B3	2	20	1800	0.75	150	CL32CQR75MN3	B3	2	20	3000
5	150	CL30CQ050MP3	C3	3	70	450	2.5	150	CL32CQ2R5MN3	C3	3	70	900
10	150	CL30CQ100MP3	D2	6	100	250	5	150	CL32CQ050MN3	D2	6	100	450
15	150	CL30CQ150MP3	E2	10	200	150	7.5	150	CL32CQ7R5MN3	E2	10	200	325

-55°C TO +85°C

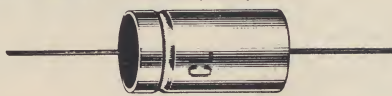
CL34/35 POLARIZED						CL36/37 NON-POLARIZED							
10	3	CL34BA100MP3	A1	1	2	250	10	3	CL36BA100MN3	A1	1	2	263
50	3	CL34BA500MP3	B1	2	6	50	45	3	CL36BA450MN3	B1	2	6	59
8	6	CL34BB080MP3	A1	1	2	329	140	3	CL36BA141MN3	C1	2	10	19
30	6	CL34BB300MP3	B1	2	6	88	280	3	CL36BA281MN3	D1	3	30	10
100	6	CL34BB101MP3	C1	2	10	26	400	3	CL36BA401MN3	C1	5	50	6
200	6	CL34BB201MP3	D1	5	30	13	7	6	CL36BB070MN3	A1	1	2	377
300	6	CL34BB301MP3	E1	10	50	9	25	6	CL36BB250MN3	B1	2	6	105
6	10	CL34BD060MP3	A1	1	2	440	85	6	CL36BB850MN3	C1	2	10	31
25	10	CL34BD250MP3	B1	2	6	105	170	6	CL36BB171MN3	D1	5	30	15
80	10	CL34BD800MP3	C1	2	10	33	250	6	CL36BB251MN3	E1	10	50	11
160	10	CL34BD161MP3	D1	4	20	17	4	10	CL36BD040MN3	A1	1	2	660
220	10	CL34BD221MP3	E1	5	50	12	16	10	CL36BD160MN3	B1	2	6	165
4.5	15	CL34BE4R5MP3	A1	1	2	495	55	10	CL36BD550MN3	C1	2	10	48
10	15	CL34BE100MP3	B1	2	4	250	110	10	CL36BD111MN3	D1	4	20	24
18	15	CL34BE180MP3	B1	2	4	124	150	10	CL36BD151MN3	E1	5	50	18
55	15	CL34BE550MP3	C1	2	10	41	2.5	15	CL36BE2R5MN3	A1	1	2	892
110	15	CL34BE111MP3	D1	4	20	21	10	15	CL36BE100MN3	B1	2	4	223
160	15	CL34BE161MP3	E1	5	30	14	35	15	CL36BE350MN3	C1	2	10	64
2.5	30	CL34BH2R5MP3	A1	2	5	893	70	15	CL36BE700MN3	D1	4	20	32
30	30	CL34BH300MP3	C1	2	11	75	100	15	CL36BE101MN3	E1	5	30	23
60	30	CL34BH600MP3	D1	4	20	37	1.5	25	CL36BG1R5MN3	A1	2	4	1485
85	30	CL34BH850MP3	E1	6	30	27	6	25	CL36BG060MN3	B1	2	6	372
1.5	50	CL34BJ1R5MP3	A1	1	4	1486	20	25	CL36BG200MN3	C1	3	10	111
6	50	CL34BJ060MP3	B1	2	6	372	40	25	CL36BG400MN3	D1	4	20	56
20	50	CL34BJ200MP3	C1	2	13	112	60	25	CL36BG600MN3	E1	5	30	38
40	50	CL34BJ400MP3	D1	4	26	56	1.4	30	CL36BH1R4MN3	A1	2	5	1594
55	50	CL34BJ550MP3	E1	6	38	41	5.5	30	CL36BH5R5MN3	B1	2	6	406
1	75	CL34BL010MP3	A1	1	4	2230	18	30	CL36BH180MN3	C1	2	11	124
4	75	CL34BL040MP3	B1	2	6	558	36	30	CL36BH360MN3	D1	4	20	62
14	75	CL34BL140MP3	C1	2	13	160	45	30	CL36BH450MN3	E1	6	30	50
28	75	CL34BL280MP3	D1	4	26	80	0.8	50	CL36BJ0R8MN3	A1	1	4	2790
40	75	CL34BL400MP3	E1	6	38	56	3	50	CL36BJ030MN3	B1	2	6	743
8	100	CL34BN0R8MP3	A1	1	3.5	2790	10	50	CL36BJ100MN3	C1	2	13	223
3	100	CL34BN030MP3	B1	2	6	743	20	50	CL36BJ200MN3	D1	4	26	112
10	100	CL34BN100MP3	C1	2	13	223	30	50	CL36BJ300MN3	E1	6	38	75
20	100	CL34BN200MP3	D1	3	25	112	0.5	75	CL36BL0R5MN3	A1	1	4	4460
30	100	CL34BN300MP3	E1	6	38	75	2	75	CL36BL020MN3	B1	8	16	1115
5	150	CL34BQ0R5MP3	A1	2	4	4460	7	75	CL36BL070MN3	C1	2	13	319
2	150	CL34BQ020MP3	B1	2	6	1693	14	75	CL36BL140MN3	D1	4	26	160
4	150	CL34BQ040MP3	C1	3	13	558	20	75	CL36BL200MN3	E1	6	38	112
7	150	CL34BQ070MP3	C1	3	13	319	0.4	100	CL36BN0R4MN3	A1	1	3.5	5600
8	150	CL34BQ080MP3	D1	4	26	265	1.5	100	CL36BN1R5MN3	B1	2	6	1485
12	150	CL34BQ120MP3	D1	4	26	208	5	100	CL36BN050MN3	C1	2	13	446
14	150	CL34BQ140MP3	D1	4	26	159	10	100	CL36BN100MN3	D1	3	25	223
20	150	CL34BQ200MP3	E1	6	38	112	15	100	CL36BN150MN3	E1	6	38	149
35	200	CL34BRR35LP3	A3	3	13	5700	0.25	150	CL36BQR25MN3	A1	2	4	8920
1.5	200	CL34BR1R5LP3	B5	4	16	1300	1	150	CL36BQ010MN3	B1	2	6	2230
5	200	CL34BR050LP3	C5	8	32	400	3.5	150	CL36BQ3R5MN3	C1	3	13	635
10	200	CL34BR100LP3	D5	14	56	200	7	150	CL36BQ070MN3	D1	4	26	319
15	200	CL34BR150LP3	E5	20	80	130	10	150	CL36BQ100MN3	E1	6	38	223
3	250	CL34BSR30LP3	A3	3	16	6600	0.15	200	CL36BRR15LN3	A4	6	26	13000
1.2	250	CL34BS1R2LP3	B5	4	20	1600	0.75	200	CL36BRR75LN3	B6	8	32	2600
4	250	CL34BS040LP3	C5	8	40	500	2.5	200	CL36BR2R5LN3	C6	16	64	800
8	250	CL34BS080LP3	D5	14	70	250	5	200	CL36BR050LN3	D6	28	112	400
12	250	CL34BS120LP3	E5	20	90	160	7.5	200	CL36BR7R5LN3	E6	40	160	260
1	300	CL34BX010LP3	B5	4	22	1600	0.15	250	CL36BSR15LN3	A4	6	32	13000
3	300	CL34BX030LP3	C5	9	45	680	0.6	250	CL36BS0R6LN3	B6	8	40	3300
7	300	CL34BX070LP3	D5	16	80	280	2	250	CL36BS020LN3	C6	16	80	1000
10	300	CL34BX100LP3	E5	22	100	200	4	250	CL36BS040LN3	D6	28	140	500
							6	250	CL36BS060LN3	E6	40	200	330



# Wet-slug Tantalum Capacitors

## MIL-C-3965 CL64/65 MINIATURE METAL CASE WET-SLUG TANTALUM CAPACITORS (TLS)

Mallory CL64/65 (TLS) sintered anode tantalums have flangeless case, ideal for high density packaging. Completely replaces the older CL44/45 MIL type. Type CL64 exhibits very high performance and very low DCL. Supplied in two temperature grades: -55° C to +85° C and -55° C to +125° C. Tolerances: ±10% (K), ±20% (M), -15% +30% (S) and -15% +50% (T). Types listed are in plain, uninsulated case; for insulating sleeve, specify CL65 and add 5c to prices shown. Complete specs in bulletin 9-351.



CASE SIZES

Case Size	Uninsulated		Insulated	
	Dia.	Lgth.	Dia.	Lgth.
T1	.190"	.453"	.219"	.485"
T2	.281"	.641"	.313"	.672"
T3	.375"	.766"	.406"	.797"

### CL64B—, -55° TO +85° C

Cap. $\mu$ F	WVDC at +85° C	Mallory Number	Case Size
30	6	CL64BB300*P3	T1
68	6	CL64BB680*P3	T1
140	6	CL64BB141*P3	T2
270	6	CL64BB271*P3	T2
330	6	CL64BB331*P3	T3
560	6	CL64BB561*P3	T3
25	8	CL64BC250*P3	T1
56	8	CL64BC560*P3	T1
220	8	CL64BC221*P3	T2
430	8	CL64BC431*P3	T3
20	10	CL64BD200*P3	T1
47	10	CL64BD470*P3	T1
100	10	CL64BD101*P3	T2
180	10	CL64BD181*P3	T2
250	10	CL64BD251*P3	T3
390	10	CL64BD391*P3	T3
15	15	CL64BE150*P3	T1
33	15	CL64BE330*P3	T1
70	15	CL64BE700*P3	T2
120	15	CL64BE121*P3	T2
170	15	CL64BE171*P3	T3
270	15	CL64BE271*P3	T3
10	25	CL64BG100*P3	T1
22	25	CL64BG220*P3	T1
100	25	CL64BG101*P3	T2
180	25	CL64BG181*P3	T3
8	30	CL64BH080*P3	T1
15	30	CL64BH150*P3	T1
40	30	CL64BH400*P3	T2
68	30	CL64BH680*P3	T2
100	30	CL64BH101*P3	T3
150	30	CL64BH151*P3	T3
5	50	CL64BJ050*P3	T1
10	50	CL64BJ100*P3	T1
25	50	CL64BJ250*P3	T2
47	50	CL64BJ470*P3	T2
60	50	CL64BJ600*P3	T3
82	50	CL64BJ820*P3	T3
4	60	CL64BK040*P3	T1
8.2	60	CL64BK820*P3	T1
20	60	CL64BK200*P3	T2
39	60	CL64BK390*P3	T2
50	60	CL64BK500*P3	T3
68	60	CL64BK680*P3	T3
3.5	75	CL64BL350*P3	T1
6.8	75	CL64BL680*P3	T1
15	75	CL64BL150*P3	T2
33	75	CL64BL330*P3	T2
40	75	CL64BL400*P3	T3
56	75	CL64BL560*P3	T3
2.5	100	CL64BN250*P3	T1
4.7	100	CL64BN470*P3	T1
11	100	CL64BN110*P3	T2
22	100	CL64BN220*P3	T2
30	100	CL64BN300*P3	T3
43	100	CL64BN430*P3	T3
1.7	125	CL64BP170*P3	T1
3.6	125	CL64BP360*P3	T1
9	125	CL64BP090*P3	T2
14	125	CL64BP140*P3	T2
18	125	CL64BP180*P3	T3
25	125	CL64BP250*P3	T3

\*Specify tolerance: K = ±10%; M = ±20%; S = -15 +30%; T = -15 +50%.

### CL64/65 INDUSTRIAL NET PRICES

Prices are for uninsulated case; for insulating sleeve, change no. to CL65 and add 5c to prices shown.

#### CL64B—, (+85° C) ±10% (K)

Case Size	1-24	25-49	50-99	100-499	500-999
T1	\$2.42	\$1.94	\$1.64	\$1.40	\$1.27
T2	3.70	2.95	2.50	2.13	1.94
T3	5.83	4.67	3.94	3.36	3.06

#### ±20% (M)

Case Size	1-24	25-49	50-99	100-499	500-999
T1	\$2.20	\$1.76	\$1.49	\$1.27	\$1.16
T2	3.36	2.69	2.27	1.93	1.76
T3	5.30	4.25	3.58	3.05	2.78

#### -15 +30% (S)

Case Size	1-24	25-49	50-99	100-499	500-999
T1	\$2.20	\$1.76	\$1.49	\$1.27	\$1.16
T2	3.36	2.69	2.27	1.93	1.76
T3	5.30	4.25	3.58	3.05	2.78

#### -15 +50% (T)

Case Size	1-24	25-49	50-99	100-499	500-999
T1	\$1.98	\$1.58	\$1.34	\$1.14	\$1.04
T2	3.02	2.41	2.03	1.73	1.58
T3	4.72	3.77	3.18	2.71	2.48

#### CL64C—, (+125° C) ±10% (K)

Case Size	1-24	25-49	50-99	100-499	500-999
T1	\$2.50	\$2.00	\$1.70	\$1.44	\$1.31
T2	3.85	3.08	2.61	2.21	2.02
T3	6.10	4.88	4.12	3.51	3.20

#### ±20% (M)

Case Size	1-24	25-49	50-99	100-499	500-999
T1	\$2.28	\$1.82	\$1.54	\$1.31	\$1.20
T2	3.50	2.80	2.39	2.02	1.84
T3	5.54	4.43	3.74	3.19	2.91

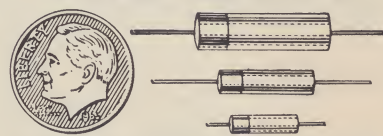
#### -15 +30% (S)

Case Size	1-24	25-49	50-99	100-499	500-999
T1	\$2.28	\$1.82	\$1.54	\$1.31	\$1.20
T2	3.50	2.80	2.39	2.02	1.84
T3	5.54	4.43	3.74	3.19	2.91

#### -15 +50% (T)

Case Size	1-24	25-49	50-99	100-499	500-999
T1	\$2.04	\$1.63	\$1.37	\$1.17	\$1.07
T2	3.14	2.52	2.12	1.81	1.65
T3	4.94	3.95	3.33	2.84	2.59

## MTP/MTPH ULTRA-MINIATURE TANTALUM CAPACITORS



Mallory MTP/MTPH capacitors provide the greatest capacity-voltage product of any tantalum type. Sintered anodes are housed in special silver cases with elastomer end seal, and are completely insulated. MTPH types are manufactured to rigid "Minuteman II" standards with zero failures in 3.7 million unit-hours of testing. Type MTP is the commercial equivalent. Operating Temp.: -50° C to +85° C. Tolerance: ±20%. DCL is extremely low. See bulletin 4-70 for details.

### MTP TYPES

$\mu$ F	WVDC	Mallory Number	Size
15	6	MTP156M006P1D	D
47	6	MTP476M006P1A	A
150	6	MTP157M006P1B	B
180	6	MTP187M006P1B	B
450	6	MTP457M006P1C	C
470	6	MTP477M006P1C	C
10	10	MTP106M010P1D	D
33	10	MTP336M010P1A	A
100	10	MTP107M010P1B	B
120	10	MTP127M010P1B	B
300	10	MTP307M010P1C	C
330	10	MTP337M010P1C	C
22	15	MTP226M015P1A	A
68	15	MTP686M015P1B	B
80	15	MTP806M015P1B	B
200	15	MTP207M015P1C	C
220	15	MTP227M015P1C	C
6.8	20	MTP685M020P1D	D
15	20	MTP156M020P1A	A
47	20	MTP476M020P1B	B
60	20	MTP606M020P1B	B
150	20	MTP157M020P1C	C
6	30	MTP605M030P1D	D
10	30	MTP106M030P1A	A
45	30	MTP456M030P1B	B
120	30	MTP127M030P1C	C
4.7	35	MTP475M035P1D	D
10	35	MTP106M035P1A	A
100	35	MTP107M035P1C	C
4	50	MTP405M050P1D	D
6.8	50	MTP685M050P1A	A
30	50	MTP306M050P1B	B
33	50	MTP336M050P1B	B
68	50	MTP686M050P1C	C
78	50	MTP786M050P1C	C
3.3	60	MTP335M060P1D	D
4.7	60	MTP475M060P1A	A
6.8	60	MTP685M060P1A	A
10	60	MTP106M060P1B	B
15	60	MTP156M060P1B	B
22	60	MTP226M060P1B	B
33	60	MTP336M060P1C	C
47	60	MTP476M060P1C	C

### MTPH TYPES

		MTPH	
180	6	MTPH12	B
450	6	MTPH13	C
120	10	MTPH10	B
300	10	MTPH11	C
80	15	MTPH8	B
200	15	MTPH9	C
60	20	MTPH7	B
10	30	MTPH4	A
45	30	MTPH5	A
120	30	MTPH6	C
6.8	50	MTPH1	A
30	50	MTPH2	B
78	50	MTPH3	C

### CASE SIZES

Case Size	Dimensions	
	Diameter	Length
A	.115"	.400"
B	.145"	.590"
C	.225"	.775"
D	.115"	.312"

### MTP INDUSTRIAL NET PRICES

Case Size	Net Each, Lots of				
	1-9	10-24	25-49	50-99	500-999
A	\$2.59	\$2.28	\$1.99	\$1.71	\$1.37
B	3.11	2.74	2.39	2.06	1.64
C	3.62	3.18	2.78	2.39	1.91
D	2.57	2.26	1.97	1.69	1.35

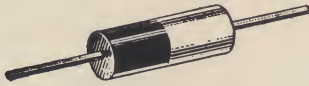
### MTPH INDUSTRIAL NET PRICES

Case Size	1-9	10-24	25-49	50-99	100-499	500-999
A	\$7.68	\$6.40	\$5.12	\$3.84	\$3.33	\$2.81
B	8.04	6.70	5.36	4.02	3.49	2.94
C	8.34	6.95	5.56	4.17	3.62	3.06



# Wet-slug Tantalum Capacitors

## TAP-TNT MINIATURE PELLET EPOXY SEAL -55°C TO +85°C



Mallory TNT-TAP capacitors employ sintered anode wet-slug construction and are furnished in metal cases with precision formed epoxy end seals. Values shown have uninsulated cases; for insulating sleeve, change 12th digit of part number to "1" and add 5c to prices shown. Standard tolerance: -15%+75%; other tolerances are available on special order. For detailed specifications, ask for bulletins: 4-38 (TNT) and 4-52 (TAP).

### CASE SIZES

Add .010" dia. x .093" l. for sleeve.

Case Code	Size, In. (Dia. x L.)	
	TNT	TAP
A	.152 x .325	.228 x .500
B	.152 x .475	.228 x .660
C	.....	.228 x .875

TNT			
Cap., $\mu$ F	WVDC +85°C	Mallory Number	Case Size
40	3	TNT406U003P0A	A
80	3	TNT806U003P0B	B
25	6	TNT256U006P0A	A
50	6	TNT506U006P0B	B
35	12	TNT356U012P0B	B
12	15	TNT126U015P0A	A
25	15	TNT256U015P0B	B
15	30	TNT156U030P0B	B
6	35	TNT605U035P0A	A
12	35	TNT126U035P0B	B
2	50	TNT205U050P0A	A
4	50	TNT405U050P0A	A
8	50	TNT805U050P0B	B

### TNT PRICES\*

Case Size	Net Each, Lots of				
	1-24	25-49	50-99	100-499	500-999
A	\$1.24	\$0.99	\$0.84	\$0.714	\$0.651
B	1.46	1.17	.99	.84	.766

### TAP PRICES\*

Case Size	Net Each, Lots of				
	1-24	25-49	50-99	100-499	500-999
A	\$1.46	\$1.17	\$0.99	\$0.84	\$0.766
B	2.46	1.97	1.66	1.415	1.29
C	4.28	3.42	2.89	2.46	2.25

\*For insulating sleeve, change 12th digit of catalog number from "0" to "1" and add 5c to prices shown.

TAP			
Cap., $\mu$ F	WVDC +85°C	Mallory Number	Case Size
30	6	TAP306U006P0A	A
140	6	TAP147U006P0B	B
330	6	TAP337U006P0C	C
20	10	TAP206U010P0A	A
100	10	TAP107U010P0B	B
250	10	TAP257U010P0C	C
15	15	TAP156U015P0A	A
70	15	TAP706U015P0B	B
170	15	TAP177U015P0C	C
12	20	TAP126U020P0A	A
10	25	TAP106U025P0A	A
8	30	TAP805U030P0A	A
40	30	TAP406U030P0B	B
100	30	TAP107U030P0C	C
7	35	TAP705U035P0A	A
30	40	TAP306U040P0B	B
5	50	TAP505U050P0A	A
25	50	TAP256U050P0B	B
60	50	TAP606U050P0C	C
4	60	TAP405U060P0A	A
20	60	TAP206U060P0B	B
50	60	TAP506U060P0C	C
3.5	75	TAP355U075P0A	A
15	75	TAP156U075P0B	B
40	75	TAP406U075P0C	C
2	90	TAP205U090P0A	A
11	90	TAP116U090P0B	B
30	90	TAP306U090P0C	C

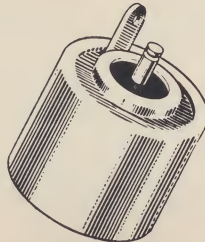
## HIGH TEMPERATURE—HERMETICALLY SEALED



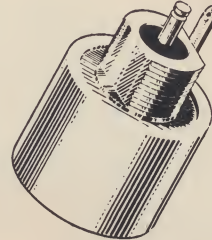
MTF



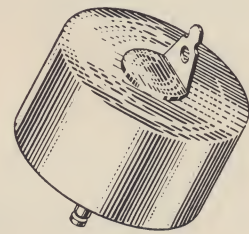
XTM-A



XTH-C, XTL-C, XTV-C



XTH-L, XTL-L



XTV-B

Mallory high temperature tantalum capacitors are furnished in hermetically sealed metal cases and are wet-slug polarized types. MTF and XTM-A have axial leads. Other XTM's and all XTL, H and V types have a wide variety of terminal arrangements available. The types shown here are the standard MIL-C-3965

### MTF -55°C TO +150°C

Axial leads, commercial equivalent to MIL-C-3965 Style CL44.

Cap., $\mu$ F	WVDC +85°C	Mallory Number	Cap., $\mu$ F	WVDC +85°C	Mallory Number
140	6	MTF147T006P0H	25	50	MTF256T050P0H
100	10	MTF107T010P0H	20	60	MTF206T060P0H
70	15	MTF706T015P0H	15	75	MTF156T075P0H
40	30	MTF406T030P0H	11	90	MTF116T090P0H
30	40	MTF306T040P0H			

Any Model listed above—Net Each, Lots of 1-24, \$6.76; 25-49, \$5.41; 50-99, \$4.56; 100-499, \$3.89.

### XTM -55°C TO +175°C

Cap., $\mu$ F	WVDC +85°C	Mallory Number*	Net Each, Lots of		
			1-24	25-49	50-99
40	35	XTM406T035P0A	\$ 6.56	\$ 6.12	\$ 5.68
25	60	XTM256T060P0A	6.56	6.12	5.68
16	90	XTM166T090P0A	6.56	6.12	5.68
8	170	XTM805T170P0A	9.90	9.24	8.56
5	255	XTM505T255P0A	12.96	12.10	11.23
4	340	XTM405T340P0A	16.20	15.12	14.04

\*Suffix A indicates MIL-C-3965/20A, Style CL10. Also available in Style CL13; change suffix A to D, add 5c to prices shown.

### XTH -55°C TO +200°C

Cap., $\mu$ F	WVDC +85°C	Mallory Number*	Net Each, Lots of		
			1-24	25-49	50-99
240	18	XTH247U018P0L	\$ 9.65	\$ 9.04	\$ 8.42
150	30	XTH157U030P0C	9.30	8.69	8.07
150	30	XTH157U030P0L	9.65	9.04	8.42
120	35	XTH127U035P0C	9.30	8.69	8.07
80	60	XTH806U060P0C	9.30	8.69	8.07
50	60	XTH806U060P0L	9.65	9.04	8.42
25	90	XTH506U090P0C	9.30	8.69	8.07
25	180	XTH256U180P0C	14.80	13.81	12.83
25	180	XTH256U180P0L	15.15	14.16	13.18
16	270	XTH166U270P0C	20.48	19.12	17.76
12	270	XTH166U270P0L	20.83	19.47	18.11
12	360	XTH126U360P0C	26.06	24.33	22.59
12	360	XTH126U360P0L	26.41	24.68	22.94
8	540	XTH805U540P0C	37.13	34.66	32.19
7	630	XTH705U630P0C	42.62	39.78	36.94

\*C, MIL-C-3965/1D, CL14; L, MIL-C-3965/1D, CL16.

values and all are available from stock. For detailed specifications, ask for bulletins: 4-41 (MTF); 4-49 (XTM); 4-60 (XTH-XTL-XTV). XTH, L and V also available in radiation proof construction; ask for bulletin 4-69 (XTG).

### XTL -55°C TO +200°C

Cap., $\mu$ F	WVDC +85°C	Mallory Number	Net Each, Lots of		
			1-24	25-49	50-99
120	18	XTL127U018P0C*	\$ 8.24	\$ 7.69	\$ 7.15
75	30	XTL756U030P0C*	8.24	7.69	7.15
75	30	XTL756U030P0L†	8.59	8.04	7.50
40	60	XTL406U060P0C*	8.24	7.69	7.15
40	60	XTL406U060P0L†	8.59	8.04	7.50
25	90	XTL256U090P0C*	8.24	7.69	7.15
12	180	XTL126U180P0C*	12.38	11.56	10.64
12	180	XTL126U180P0L†	12.73	11.91	11.09
8	270	XTL805U270P0C*	16.70	15.59	14.48
6	360	XTL605U360P0C*	21.16	19.75	18.34
6	360	XTL605U360P0L†	21.50	20.10	18.69
5	450	XTL505U450P0C*	25.70	23.99	22.28
4	540	XTL405U540P0C*	29.89	27.90	25.91
3.5	630	XTL355U630P0C*	34.30	32.01	29.73

\*Stock Items (MIL-C-3965/1D, Style CL14). †Stock Items (MIL-C-3965/1D, Style CL16).

### XTV -55°C TO +200°C

XTV listed by MIL-C-3965/19A Style CL17 ("C") and CL18 ("B") are stocked. Ten other case configurations available on special order.

Cap., $\mu$ F	WVDC +85°C	Mallory Number	Net Each, Lots of		
			1-24	25-49	50-99
370	30	XTV377T030P0C	\$19.55	\$18.25	\$16.95
650	30	XTV657T030P0C	30.05	28.05	26.05
1300	30	XTV138T030P0*	43.55	40.65	37.75
190	40	XTV197T040P0B	13.55	12.65	11.75
290	40	XTV297T040P0*	19.55	18.25	16.95
500	40	XTV507T040P0*	30.05	28.05	26.05
1000	40	XTV108T040P0*	43.55	40.65	37.75
200	60	XTV207T060P0*	19.55	18.25	16.95
350	60	XTV357T060P0*	30.05	28.05	26.05
700	60	XTV707T060P0*	43.55	40.65	37.75
750	60	XTV757T060P0*	43.55	40.65	37.75
220	75	XTV227T075P0*	30.05	28.05	26.05
450	75	XTV457T075P0*	43.55	40.65	37.75
120	90	XTV127T090P0*	19.55	18.25	16.95
60	180	XTV606T180P0*	35.00	32.67	30.34
40	270	XTV406T270P0*	49.55	46.25	42.95
25	450	XTV256T450P0*	79.55	74.25	68.95

\*Specify B for CL18 or C for CL17.

Prices and specifications subject to change without notice.



# Power Resistors

## TYPE HJ (FIXED) AND AV (ADJUSTABLE)

Vitreous enamel-coated, wire-wound resistors. Furnished with complete hardware except HHJ, 1HJ and 2HJ which have wire leads.

**To Order:** Use type number followed by resistance value (e.g., HHJ4000).

**Tolerance:**  $\pm 5\%$  except (\*),  $\pm 10\%$ .



### FIXED VITREOUS TYPES

#### 8-WATT TYPE HHJ

Ohms	Net Each	Ohms	Net Each	Ohms	Net Each	Ohms	Net Each
1*	\$0.46	50	\$0.46	750	\$0.50	4500	\$0.50
1.5*	.46	75	.46	800	.50	5000	.50
2*	.46	100	.46	900	.50	6000	.53
3*	.46	125	.46	1000	.50	7000	.53
4*	.46	150	.46	1100	.50	7500	.53
5*	.46	200	.46	1200	.50	8000	.53
7.5*	.46	225	.46	1250	.50	9000	.53
10*	.46	250	.46	1500	.50	10,000	.53
12	.46	300	.46	1750	.50	12,500	.57
15	.46	350	.50	2000	.50	15,000	.57
20	.46	400	.50	2250	.50	20,000	.61
25	.46	450	.50	2500	.50	25,000	.63
30	.46	500	.50	3000	.50		
35	.46	600	.50	3500	.50		
40	.46	700	.50	4000	.50		

#### 12-WATT TYPE 1HJ

1*	\$0.51	150	\$0.51	1500	\$0.53	11,000	\$0.71
2*	.51	200	.51	1750	.53	12,000	.71
3*	.51	225	.51	2000	.53	12,500	.71
4*	.51	250	.51	2250	.53	13,500	.71
5*	.51	300	.51	2500	.53	14,300	.71
7.5*	.51	350	.51	3000	.53	15,000	.71
10*	.51	400	.51	3500	.53	16,000	.71
12	.51	450	.51	4000	.53	17,500	.71
15	.51	500	.51	4500	.53	18,000	.71
20	.51	600	.51	5000	.53	20,000	.71
25	.51	700	.51	6000	.63	22,500	.75
30	.51	750	.51	7000	.63	25,000	.75
35	.51	800	.51	7500	.63	30,000	.75
40	.51	900	.51	8000	.63	35,000	.75
50	.51	1000	.51	8200	.63	40,000	.75
75	.51	1100	.53	8500	.63	45,000	.83
100	.51	1200	.53	9000	.63	50,000	.83
125	.51	1250	.53	10,000	.63		

#### 20-WATT TYPE 2HJ

5	\$0.61	300	\$0.61	2500	\$0.63	12,500	\$0.77
10	.61	400	.61	2750	.75	15,000	.77
15	.61	500	.61	3000	.75	20,000	.77
25	.61	750	.61	3500	.75	25,000	.77
50	.61	1000	.61	4000	.75	30,000	.77
75	.61	1250	.61	4500	.75	35,000	.90
100	.61	1500	.61	5000	.75	40,000	.90
150	.61	1750	.63	6000	.75	50,000	.90
200	.61	2000	.63	7500	.75	75,000	1.31
250	.61	2250	.63	10,000	.75	100,000	1.34

#### 25-WATT TYPE 2.5HJ

1	\$0.65	75	\$0.65	2000	\$0.68	12,500	\$0.81
2	.65	100	.65	2500	.68	15,000	.81
3	.65	150	.65	3000	.78	20,000	.81
5	.65	200	.65	3500	.78	25,000	.81
7.5	.65	250	.65	4000	.78	30,000	.94
10	.65	500	.65	5000	.78	40,000	.94
15	.65	750	.65	6000	.78	50,000	1.09
25	.65	1000	.65	7500	.78	75,000	1.28
50	.65	1500	.65	10,000	.78	100,000	1.47

#### 50-WATT TYPE 5HJ

10	\$0.99	750	\$0.99	7500	\$1.11	30,000	\$1.39
25	.99	1000	.99	10,000	1.11	40,000	1.39
50	.99	1500	1.02	12,500	1.21	50,000	1.55
100	.99	2000	1.02	15,000	1.21	75,000	1.77
250	.99	2500	1.02	20,000	1.21	100,000	1.92
500	.99	5000	1.02	25,000	1.39		

#### 75-WATT TYPE 7.5HJ

10	\$1.17	750	\$1.17	7500	\$1.30	30,000	\$1.57
25	1.17	1000	1.17	10,000	1.30	40,000	1.57
50	1.17	1500	1.22	12,500	1.40	50,000	1.75
100	1.17	2000	1.22	15,000	1.40	75,000	1.99
250	1.17	2500	1.22	20,000	1.40	100,000	2.12
500	1.17	5000	1.22	25,000	1.57		

#### 100-WATT TYPE 10HJ

25	\$1.38	750	\$1.38	7500	\$1.56	40,000	\$1.92
50	1.38	1000	1.38	10,000	1.56	50,000	1.99
100	1.38	1500	1.44	15,000	1.69	75,000	2.20
150	1.38	2000	1.44	20,000	1.69	100,000	2.46
250	1.38	2500	1.44	25,000	1.92		
500	1.38	5000	1.44	30,000	1.92		

#### 160-WATT TYPE 16HJ

25	\$2.05	750	\$2.05	7500	\$2.28	40,000	\$2.52
50	2.05	1000	2.05	10,000	2.28	50,000	2.60
100	2.05	1500	2.09	15,000	2.44	75,000	2.77
150	2.05	2000	2.09	20,000	2.44	100,000	2.93
250	2.05	2500	2.09	25,000	2.52		
500	2.05	5000	2.09	30,000	2.52		

\*Tolerance  $\pm 10\%$ ; all others  $\pm 5\%$ .

### 200-WATT TYPE 20HJ (FIXED)

Ohms	Net Each	Ohms	Net Each	Ohms	Net Each	Ohms	Net Each
25	\$2.21	750	\$2.21	5000	\$2.28	50,000	\$2.77
50	2.21	1000	2.21	7500	2.44	75,000	2.93
75	2.21	1500	2.28	10,000	2.44	100,000	3.11
100	2.21	2000	2.28	20,000	2.60		
250	2.21	2500	2.28	30,000	2.68		
500	2.21	3000	2.28	40,000	2.68		

### ADJUSTABLE VITREOUS TYPES

#### 10-WATT TYPE 1AV

1	\$1.00	75	\$1.00	750	\$1.00	4000	\$1.06
2	1.00	100	1.00	800	1.00	4500	1.06
3	1.00	150	1.00	1000	1.00	5000	1.06
5	1.00	200	1.00	1250	1.06	6000	1.14
7.5	1.00	250	1.00	1500	1.06	7000	1.14
10	1.00	300	1.00	2000	1.06	7500	1.14
15	1.00	350	1.00	2250	1.06	8000	1.14
20	1.00	400	1.00	2500	1.06	8500	1.14
25	1.00	500	1.00	3000	1.06	9000	1.14
50	1.00	600	1.00	3500	1.06	10,000	1.14

#### 25-WATT TYPE 2AV

1	\$1.57	100	\$1.16	1000	\$1.16	5000	\$1.19
3	1.57	150	1.16	1250	1.19	6000	1.28
5	1.16	200	1.16	1500	1.19	7500	1.28
10	1.16	250	1.16	2000	1.19	10,000	1.28
15	1.16	300	1.16	2500	1.19	12,000	1.32
25	1.16	400	1.16	3000	1.19	15,000	1.32
50	1.16	500	1.16	3500	1.19	20,000	1.32
75	1.16	750	1.16	4000	1.19	25,000	1.45

#### 50-WATT TYPE 5AV

1	\$1.51	150	\$1.51	2000	\$1.54	20,000	\$1.72
2	1.51	200	1.51	2500	1.54	25,000	1.90
5	1.51	250	1.51	3000	1.54	30,000	1.90
10	1.51	400	1.51	4000	1.54	40,000	1.90
25	1.51	500	1.51	5000	1.54	50,000	1.99
50	1.51	750	1.51	7500	1.62		
75	1.51	1000	1.51	10,000	1.62		
100	1.51	1500	1.54	15,000	1.72		

#### 75-WATT TYPE 7.5AV

5	\$1.69	200	\$1.69	2000	\$1.74	15,000	\$1.92
10	1.69	250	1.69	2500	1.74	20,000	1.92
25	1.69	400	1.69	3000	1.74	25,000	2.09
50	1.69	500	1.69	4000	1.74	30,000	2.09
75	1.69	750	1.69	5000	1.74	40,000	2.09
100	1.69	1000	1.69	7500	1.81	50,000	2.27
150	1.69	1500	1.74	10,000	1.81		

#### 100-WATT TYPE 10AV

1	\$1.95	200	\$1.95	2000	\$2.01	20,000	\$2.26
2	1.95	250	1.95	2500	2.01	25,000	2.49
5	1.95	300	1.95	3000	2.01	30,000	2.49
10	1.95	400	1.95	4000	2.01	35,000	2.49
25	1.95	500	1.95	5000	2.01	40,000	2.49
50	1.95	750	1.95	7500	2.13	50,000	2.57
100	1.95	1000	1.95	10,000	2.13	75,000	2.81
150	1.95	1500	2.01	15,000	2.26	100,000	3.01

#### 160-WATT TYPE 16AV

1	\$2.85	200	\$2.85	2500	\$2.88	25,000	\$3.31
2	2.85	250	2.85	3000	2.88	30,000	3.31
5	2.85	300	2.85	4000	2.88	35,000	3.31
10	2.85	400	2.85	5000	2.88	40,000	3.31
25	2.85	500	2.85	7500	3.07	50,000	3.40
50	2.85	750	2.85	10,000	3.07	75,000	3.56
100	2.85	1000	2.85	15,000	3.24	100,000	3.72
150	2.85	2000	2.88	20,000	3.24		

#### 200-WATT TYPE 20AV

1	\$3.19	100	\$3.19	750	\$3.19	20,000	\$3.62
2	3.19	150	3.19	1000	3.19	25,000	3.81
5	3.19	200	3.19	1500	3.26	30,000	3.81
10	3.19	250	3.19	2000	3.26	50,000	3.91
25	3.19	300	3.19	2500	3.26	75,000	4.09
50	3.19	400	3.19	5000	3.26	100,000	4.29
75	3.19	500	3.19	10,000	3.44		

### RESISTOR TUBE SIZES

Type	Dia. x L.	Type	Dia. x L.
HHJ	$\frac{5}{16}$ " x 1"	20HJ	$1\frac{1}{8}$ " x $10\frac{1}{2}$ "
1HJ	$\frac{5}{16}$ " x $1\frac{1}{4}$ "	1AV	$\frac{5}{16}$ " x



# Power Resistors

## TYPE AE WIRE-WOUND RESISTORS AXIAL LEAD VITREOUS ENAMEL COATED

Mallory type AE wire-wound resistors have axial leads and a tough green vitreous enamel coating. Available in three power ratings: 3, 5 and 10 watts. The equivalent MIL-R-26 styles are: RW59 (3AE), RW57 (5AE) and RW58 (10AE).  
**To order:** Use type number followed by resistance value (e.g., 3AE4000). **Tolerance:** =5% except (\*), =10%.

3-WATT TYPE 3AE							
Ohms	Net Each	Ohms	Net Each	Ohms	Net Each	Ohms	Net Each
1*	\$0.45	35	\$0.45	500	\$0.49	2500	\$0.49
1.5*	.45	40	.45	600	.49	3000	.49
2*	.45	50	.45	700	.49	3500	.49
3*	.45	75	.45	750	.49	4000	.49
4*	.45	100	.45	800	.49	4500	.49
5*	.45	125	.45	900	.49	5000	.49
6*	.45	150	.45	1000	.49	6000	.52
7.5*	.45	200	.45	1100	.49	7000	.52
10*	.45	225	.45	1200	.49	7500	.52
12	.45	250	.45	1250	.49	8000	.52
15	.45	300	.45	1500	.49	9000	.52
20	.45	350	.49	1750	.49	10,000	.52
25	.45	400	.49	2000	.49		
30	.45	450	.49	2250	.49		

5-WATT TYPE 5AE							
Ohms	Net Each	Ohms	Net Each	Ohms	Net Each	Ohms	Net Each
1*	\$0.46	50	\$0.46	750	\$0.50	4500	\$0.50
1.5*	.46	75	.46	800	.50	5000	.50
2*	.46	100	.46	900	.50	6000	.53
3*	.46	125	.46	1000	.50	7000	.53
4*	.46	150	.46	1100	.50	7500	.53
5*	.46	200	.46	1200	.50	8000	.53
7.5*	.46	225	.46	1250	.50	9000	.53
10*	.46	250	.46	1500	.50	10,000	.53
12	.46	300	.46	1750	.50	12,500	.57
15	.46	350	.50	2000	.50	15,000	.57
20	.46	400	.50	2250	.50	17,500	.61
25	.46	450	.50	2500	.50	18,000	.61
30	.46	500	.50	3000	.50	20,000	.61
35	.46	600	.50	3500	.50	22,500	.63
40	.46	700	.50	4000	.50	25,000	.63

10-WATT TYPE 10AE							
Ohms	Net Each	Ohms	Net Each	Ohms	Net Each	Ohms	Net Each
1*	\$0.51	125	\$0.51	1250	\$0.53	11,000	\$0.71
1.5*	.51	150	.51	1500	.53	12,000	.71
2*	.51	200	.51	1750	.53	12,500	.71
3*	.51	225	.51	2000	.53	13,500	.71
4*	.51	250	.51	2250	.53	15,000	.71
5*	.51	300	.51	2500	.53	16,000	.71
7.5*	.51	350	.51	3000	.53	17,500	.71
10*	.51	400	.51	3500	.53	18,000	.71
12	.51	450	.51	4000	.53	20,000	.71
15	.51	500	.51	4500	.53	22,500	.75
20	.51	600	.51	5000	.53	25,000	.75
25	.51	700	.51	6000	.63	30,000	.75
30	.51	750	.51	7000	.63	35,000	.75
35	.51	800	.51	7500	.63	40,000	.75
40	.51	900	.51	8000	.63	45,000	.83
50	.51	1000	.51	8500	.63	50,000	.83
75	.51	1100	.53	9000	.63		
100	.51	1200	.53	10,000	.63		

\*Tolerance, =10%; all others, =5%.

## TYPE AE RESISTOR SIZES

Type	Diameter	Length
3AE	1/4"	1/4"
5AE	11/32"	1"
10AE	15/32"	1 1/4"

## TYPE MOL METAL OXIDE FILM RESISTORS

Mallory MOL resistors have a thin layer of metal oxide evaporated onto a high quality ceramic rod. A precision ground spiral provides exactly the correct resistance. The MOL is essentially non-inductive with superb stability characteristics. May be used in place of either composition carbon, deposited carbon or wire-wound types. Full wattage at 70° C ambient.  
**To order:** Use type number followed by resistance value (e.g., 2MOL1000). **Tolerance:** =10%.

2-WATT TYPE 2MOL							
Ohms	Net Each	Ohms	Net Each	Ohms	Net Each	Ohms	Net Each
33	\$0.20	220	\$0.20	1500	\$0.20	10,000	\$0.20
39	.20	270	.20	1800	.20	12,000	.20
47	.20	330	.20	2200	.20	15,000	.20
56	.20	390	.20	2700	.20	18,000	.20
68	.20	470	.20	3300	.20	22,000	.20
82	.20	560	.20	3900	.20	27,000	.20
100	.20	680	.20	4700	.20	33,000	.20
120	.20	820	.20	5600	.20	39,000	.20
150	.20	1000	.20	6800	.20	47,000	.20
180	.20	1200	.20	8200	.20	56,000	.20

3-WATT TYPE 3MOL							
Ohms	Net Each	Ohms	Net Each	Ohms	Net Each	Ohms	Net Each
39	\$0.20	270	\$0.20	1800	\$0.20	12,000	\$0.25
47	.20	330	.20	2200	.20	15,000	.25
56	.20	390	.20	2700	.20	18,000	.25
68	.20	470	.20	3300	.20	22,000	.25
82	.20	560	.20	3900	.20	27,000	.28
100	.20	680	.20	4700	.22	33,000	.28
120	.20	820	.20	5600	.22	39,000	.28
150	.20	1000	.20	6800	.22	47,000	.28
180	.20	1200	.20	8200	.24	56,000	.28
220	.20	1500	.20	10,000	.24		

4-WATT TYPE 4MOL							
Ohms	Net Each	Ohms	Net Each	Ohms	Net Each	Ohms	Net Each
82	\$0.20	560	\$0.20	3900	\$0.21	27,000	\$0.32
100	.20	680	.20	4700	.22	33,000	.32
120	.20	820	.20	5600	.22	39,000	.32
150	.20	1000	.20	6800	.22	47,000	.32
180	.20	1200	.20	8200	.25	56,000	.32
220	.20	1500	.20	10,000	.25	68,000	.32
270	.20	1800	.20	12,000	.29	82,000	.32
330	.20	2200	.21	15,000	.29	100,000	.32
390	.20	2700	.21	18,000	.29	120,000	.32
470	.20	3300	.21	22,000	.29		

5-WATT TYPE 5MOL							
Ohms	Net Each	Ohms	Net Each	Ohms	Net Each	Ohms	Net Each
100	\$0.20	680	\$0.20	4700	\$0.23	33,000	\$0.32
120	.20	820	.20	5600	.23	39,000	.32
150	.20	1000	.20	6800	.23	47,000	.32
180	.20	1200	.20	8200	.26	56,000	.32
220	.20	1500	.20	10,000	.26	68,000	.32
270	.20	1800	.20	12,000	.30	82,000	.32
330	.20	2200	.22	15,000	.30	100,000	.32
390	.20	2700	.22	18,000	.30	120,000	.32
470	.20	3300	.22	22,000	.30		
560	.20	3900	.22	27,000	.32		

7-WATT TYPE 7MOL							
Ohms	Net Each	Ohms	Net Each	Ohms	Net Each	Ohms	Net Each
120	\$0.22	820	\$0.22	5600	\$0.26	39,000	\$0.36
150	.22	1000	.22	6800	.26	47,000	.36
180	.22	1200	.22	8200	.30	56,000	.36
220	.22	1500	.22	10,000	.30	68,000	.36
270	.22	1800	.22	12,000	.33	82,000	.36
330	.22	2200	.22	15,000	.33	100,000	.36
390	.22	2700	.22	18,000	.33	120,000	.36
470	.22	3300	.22	22,000	.33		
560	.22	3900	.22	27,000	.36		
680	.22	4700	.26	33,000	.36		

## TYPE MOL RESISTOR SIZES

Type	Diam.	Lgth.	Lead
2MOL	1/4"	1 1/4"	#17
3MOL	1/4"	1 1/2"	#20
4MOL	1/4"	1 3/4"	#20
5MOL	1/4"	1 3/4"	#20
7MOL	1/4"	2 1/4"	#20

## HJ AND AV RESISTOR DIMENSIONS

Mallory Type	Watts	Dimensions, Inches									
		O.D.	I.D.	L	T	H	h	d	F	A	
HJJ	5	1/16	13/64	1	1 1/2	1/2	1/16	†	30V†	...	
1HJ	10	1/16	15/64	1 1/4	1 3/4	1/2	1/16	†	30V†	...	
1AV*	10	1/16	15/64	1 1/4	1 3/4	1/2	1/16	†	30V†	...	
2HJ	20	1/16	5/8	2	2 1/2	1/2	1/16	.144	31V†	1V	
2AV*	20	1/16	5/8	2	2 1/2	1/2	1/16	.144	31V†	...	
2.5HJ	25	1/16	5/8	2	2 1/2	1/2	1/16	.144	31V	3V	
5HJ	50	1/16	5/8	4	3 1/2	1/2	1/16	.144	31V	...	
5AV*	50	1/16	5/8	4	3 1/2	1/2	1/16	.144	31V	...	
7.5HJ	75	1/16	5/8	6	5 1/2	1/2	1/16	.144	31V	3V	
7.5AV*	75	1/16	5/8	6	5 1/2	1/2	1/16	.144	31V	...	
10HJ	100	3/4	3/2	6 1/2	6	1/2	1/16	.144	33V	...	
10AV*	100	3/4	3/2	6 1/2	6	1/2	1/16	.144	33V	4V	
16HJ	160	1 1/8	1 1/4	8 1/2	8	1 1/8	1	.144	35V	...	
16AV*	160	1 1/8	1 1/4	8 1/2	8	1 1/8	1	.144	35V	6V	
20HJ	200	1 1/8	1 1/4	10 1/2	10	1 1/8	1	.144	32V	...	
20AV*	200	1 1/8	1 1/4	10 1/2	10	1 1/8	1	.144	32V	6V	

\*Adjustable types; all others fixed. †Has wire leads 2 1/4" long x .040" dia. ‡Mounting feet not furnished.

## HARDWARE DIMENSIONS

Mall. No.	Dimensions, Inches					
	A	B	C	D	E	F
1V	1/16	1/16	1/16	.096	1/16	.020
3V	1/16	1/16	1/16	.166	1/16	.032
4V	1/16	1/16	1/16	.166	1/16	.032
6V	1/16	1/16	1/16	.173	1/16	.032
30V	1/16	1/16	1/16	.142	1/16	1/16
31V	1/16	1/16	1/16	.203	1/16	1/16
32V	1/16	1/16	1/16	.265	1/16	1/16
33V	1/16	1/16	1/16	.203	1/16	1/16
35V	1/16	1/16	1/16	.265	1/16	1/16

Prices and specifications subject to change without notice.



# Carbon Control Data

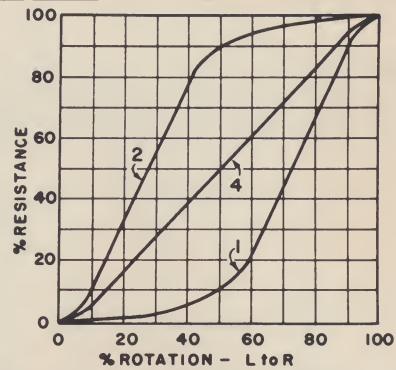
Basic specifications for carbon controls include both resistance and taper. Resistance values and tapers for the various types of Mallory carbon controls are shown in the General Catalog by means of a code: 1, 2, or 4. An explanation of these codes is shown below. Taper refers to the percent of resistance change compared to percent of shaft rotation from left to right (clockwise when viewing control from the front).

TAPER No. 1: Left-hand logarithmic used in audio circuits where percent of change is small at start of rotation. STA-LOC suffix is "A".

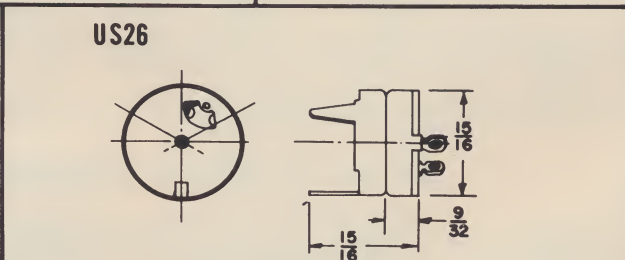
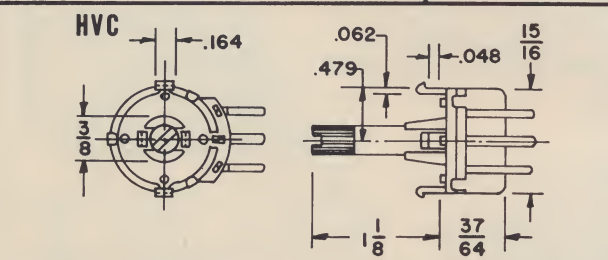
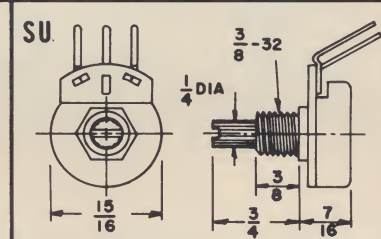
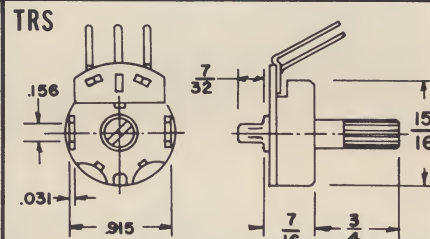
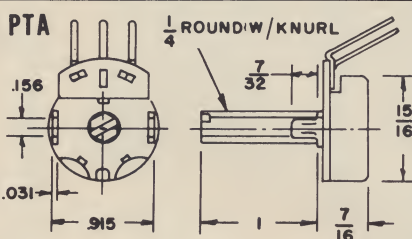
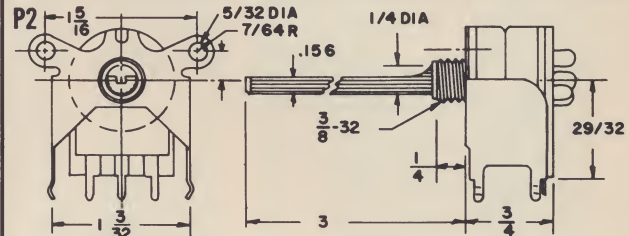
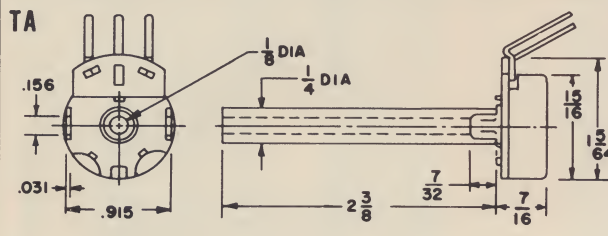
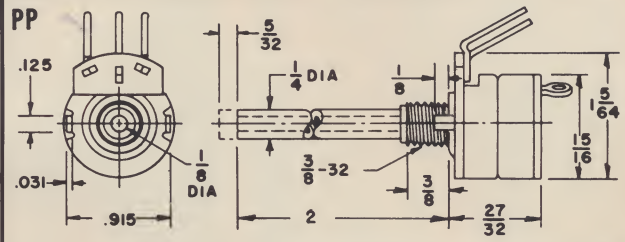
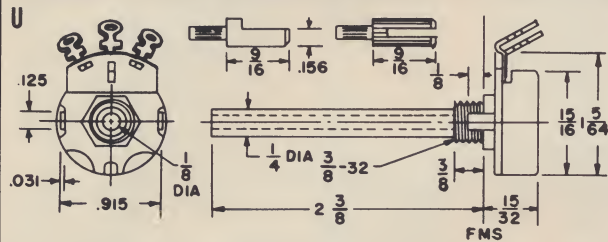
TAPER No. 2: Right-hand logarithmic, used where percent of change must be large at start of rotation. STA-LOC suffix is "R".

TAPER No. 4: Linear taper where percent of resistance change is directly proportional to rotational change on a straight line. STA-LOC suffix is "L".

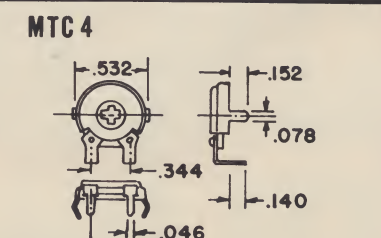
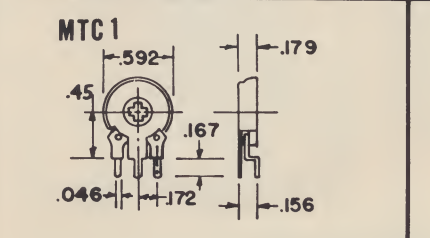
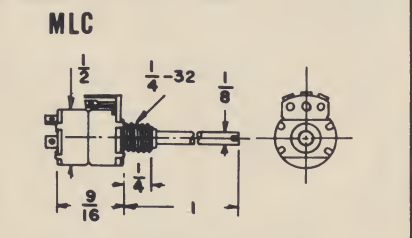
Always check taper with leads attached to center and right-hand terminals when viewing control from front.



## MIDGETROLS®



## MINITROLS™





# Carbon Controls

## MIDGETROLS®

Mallory Midgetrols are used in both replacement and industrial applications. Rated 1 watt linear, 1/2 watt audio taper. 15/16" dia. Tapers: 1, left hand audio; 2, reverse audio; 4, linear.

**BUSHING MOUNT—METAL SHAFT**  
3/4"-32 x 3/4" bushing; shaft 1/4" dia. x 2 3/4" FMS (Front Mounting Surface). Furnished with two knob adapters and hex nut.  
**Mallory U Midgetrols—Without** \$1.02  
taps. Net Each.  
**Mallory U Midgetrols—Single or** \$1.26  
double taps. Net Each.

WITHOUT TAPS					
Mall. No.	Resis., Ohms	Tap	Mall. No.	Resis., Ohms	Tap
U1	100	4	U35	50K	4
U2	500	4	U36	75K	4
U52R	500	2	U39	100K	1
U751R	750	2	U40	100K	2
U3	1K	2	U41	100K	4
U4	1K	4	U415	125K	4
U5	1500	2	U42	150K	1
U5L	1500	4	U43	200K	4
U6	2K	4	U44	250K	1
U7	2500	2	U45	250K	2
U8	3K	4	U46	250K	4
U9	3K	2	U48	500K	1
U12	5K	1	U50	500K	4
U14	5K	4	U51	750K	1
U18	10K	1	U52	1 meg	2
U19	10K	2	U53	1 meg	1
U20	10K	4	U54	1 meg	4
U21	15K	1	U155	1.5 megs	4
U22	15K	2	U55	2 megs	1
U24	20K	1	U56	2 megs	4
U26	20K	4	U255	2.5 megs	4
U28	25K	2	U57	3 megs	4
U28A	25K	1	U59	3 megs	4
U29	25K	4	U63	5 megs	2
U30	30K	4	U65	5 megs	1
U33	50K	1	U67	5 megs	4
U34	50K	2	U82	10 megs	4

SINGLE TAPPED					
Mall. No.	Resis., Ohms	Tap At	Mall. No.	Resis., Ohms	Tap At
UT153	15K	10K	UT440	1	200K
UT415	30K	25K	UT443	1	450K
UT420	250K	50K	UT450	2	125K
UT421	250K	150K	UT448	2	250K
UT425	350K	70K	UT449	2	600K
UT427	500K	100K	UT454	2	400K
UT429	500K	50K	UT451	2	900K
UT430	500K	150K	UT457	3	900K
UT431	500K	225K	UT461	3 1/4	300K
UT438	1 meg	300K			

DOUBLE TAPPED				
Mallory No.	Resistance, Ohms	Taps at		
		Tap 1	Tap 2	
UDT283	500K	100K	200K	
UDT289	1 meg	250K	500K	
UDT291	1.5 megs	225K	500K	
UDT295	2.25 megs	250K	500K	
UDT296	2.25 megs	500K	1 meg	
UDT303	3.3 megs	300K	1.5 megs	

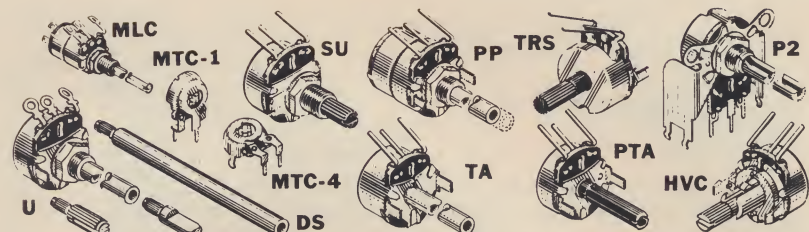
**BUSHING MOUNT—NYLON SHAFT**  
Same bushing as U type. Shaft 1/4" dia. x 3/4" FMS nylon.  
**Mallory SU Midgetrols—Net Each.** 93¢

Mallory No.	Resis., Ohms	Tap	Mallory No.	Resis., Ohms	Tap
SU6	1500	4	SU50	500K	4
SU8	3K	4	SU54	1 meg	4
SU14	5K	4	SU56	2 megs	4
SU20	10K	4	SU565	2.5 megs	4
SU29	25K	4	SU59	3 megs	4
SU35	50K	4	SU67	5 megs	4
SU41	100K	4	SU69	7.5 megs	4
SU46	250K	4			

**TAB MOUNT—METAL SHAFT**  
Mounts on two twist-tab lugs. Shaft 1/4" dia. x 2 3/4" FMS. Furnished with three knob adapters.  
**Mallory TA Midgetrols—Net Ea.** 75¢

Mallory No.	Resis., Ohms	Tap	Mallory No.	Resis., Ohms	Tap
TA52L	500	4	TA334A	330K	1
TA751L	750	4	TA55R	500K	2
TA13L	1000	4	TA55A	500K	1
TA152L	1500	4	TA55L	500K	4
TA352L	3500	4	TA16A	1 meg	1
TA53L	5000	4	TA16L	1 meg	4
TA14L	10K	4	TA155L	1.5 megs	4
TA153L	15K	4	TA26A	2 megs	1
TA253L	25K	4	TA26L	2 megs	4
TA54A	50K	1	TA26T16	2 megs*	4
TA54L	50K	4	TA255L	2.5 megs	4
TA15L	100K	4	TA36L	3 megs	4
TA184L	180K	4	TA56R	5 megs	2
TA254L	250K	4	TA56L	5 megs	4

\*Tap at 1 meg.—Net Each. 99¢



**TAB MOUNT—NYLON SHAFT**  
Same as TA except has 1/4" dia. x 1" FMS nylon shaft. Furn. with 2" shaft extender.  
**Mallory PTA Midgetrols—Net Ea.** 60¢

Mall. No.	Ohms	Mall. No.	Megs.
PTA52L	500	PTA754L	750K*
PTA751L	750	PTA16L	1
PTA152L	1500	PTA1254L	1.25
PTA252L	2500	PTA26L	2
PTA352L	3500	PTA355L	3.5
PTA53L	5000	PTA46A	4
PTA54L	50K	PTA56R	5
PTA15L	100K	PTA56L	5
PTA35L	300K	PTA755L	7.5
PTA55R	500K	PTA855L	8.5
PTA55L	500K		

\*Ohms. †Taper.  
**SWITCHES, SHAFT EXTENDERS**  
Switches for U, UT, UDT, TA or PTA controls.

Mall. No.	Description	Net
US26	SPST, 6 amps at 125 VAC	42¢
US26T	SPST, w/dummy terminal	51¢
US27	DPST, 6 amps at 125 VAC	51¢
US28	SPDT, 3 amps at 125 VAC	51¢
DS36	1/4" dia. x 2 1/4"	33¢
DS37	3/8" dia. x 2 1/4"	33¢

**BUSHING MOUNT WITH P-P SWITCH**  
Standard U control with SPST 6 amps at 125 VAC push-pull switch, U/L Approved. Shaft 1/4" dia. x 2" FMS. Furnished with knob adapters and hex nut.

Mallory Number	Resis., Ohms	Tap, Ohms	Net Each
PP13R	1K	2	\$1.35
PP252R	2.5K	2	1.35
PP253R	25K	2	1.35
PP15A	100K	1	1.35
PP25L	200K	4	1.35
PP254A	250K	1	1.35
PP254DT154	250K	100K-150K	4 1.59
PP55A	500K	1	1.35
PP55L	500K	4	1.35
PP55DT1683	500K	78K-168K	4 1.59
PP55T25	500K	200K	4 1.59
PP55T254	500K	250K	1 1.59
PP16A	1 meg	1	1.35
PP16L	1 meg	4	1.35
PP16T15	1 meg	100K	1 1.59
PP16T25	1 meg	200K	1 1.59
PP16DT55	1 meg	250K-500K	4 1.59
PP16T55	1 meg	500K	2 1.59
PP155L	1.5 megs	4	1.35
PP26A	2 megs	1	1.35
PP26DT16	2 megs	500K-1meg	1 1.59
PP26T16	2 megs	1 meg	4 1.59
PP36DT26	3 megs	1 & 2 megs	4 1.59
PP36L	3 megs	4	1.35
PP46T26	4 megs	2 megs	4 1.59
PP56L	5 megs	4	1.35

**PRINTED CIRCUIT MOUNTING**  
Universal printed circuit control with "doghouse" and 3/4"-32 x 1/4" bushing and 1/4" dia. x 3" FMS universal shaft. Switches rated 6 amps at 125 VAC, U/L Approved.  
**Mallory P2 Midgetrols—Without** \$1.11  
taps. Net Each.  
**Mallory P2 Midgetrols—Single or double** \$1.35  
tapped. Net Each.  
**Mallory P2—SPST switch. Net.** 1.53  
**Mallory P2—DPST switch. Net.** 1.62

Mallory No.	Resis., Ohms	Tap #1	Tap #2	Tap per	Switch
P2-252AS	2.5K	1		1	SPST
P2-53LS	5K	4		4	SPST
P2-14AD	10K	1		1	DPST
P2-153AD	15K	1		1	DPST
P2-55A	500K	1		1	
P2-55AS	500K	1		1	SPST
P2-55T254	500K	250K	1	1	
P2-55LS	500K	4		4	SPST
P2-16A	1 meg	1		1	
P2-16AS	1 meg	1		1	SPST
P2-16AD	1 meg	1		1	DPST
P2-16T35	1 meg	300K	1	1	
P2-16LD	1 meg	4		4	DPST
P2-26A	2 megs	1		1	
P2-26AS	2 megs	1		1	SPST
P2-26DT65	2 megs	300K	600K	1	
P2-36L	3 megs	4		4	

**TAB MOUNT—REVERSE NYLON SHAFT**  
Same as PTA except 1/4" dia. nylon shaft projects 3/4" out REAR of control. Screw-driver slot in mounting end of shaft.  
**Mallory TRS Midgetrols—Net Ea.** 54¢

Mall. No.	Ohms	T'p'r	Mall. No.	Ohms	T'p'r
TRS12L	100	4	TRS15L	100K	4
TRS351L	350	4	TRS25L	200K	4
TRS751L	750	4	TRS254L	250K	4
TRS53L	5K	4	TRS55L	500K	4
TRS153L	15K	4	TRS754L	750K	4
TRS153	15K*	4	TRS16L	1 meg	4
DT14	15K*	4	TRS26A	2 megs	1
TRS253L	25K	4	TRS26L	2 megs	4
TRS44L	40K	4	TRS36L	3 megs	4
TRS74L	70K	4	TRS46A	4 megs	1
TRS15A	100K	1	TRS46L	5 megs	4

\*Taps at 5K and 10K ohms.

**HIGH VOLTAGE COLOR CONTROL**  
To isolate control mounting from up to 4000 volts rms. Nylon insulating mounting plate and 1/4" dia. x 1 1/2" FMS nylon shaft.  
**Mallory HVC Midgetrols—Net.** \$1.02

Mallory No.	Resistance	Taper
HVC63L	6000 ohms	4
HVC155L	1.5 megs	4
HVC355L	3.5 megs	4

**1/2" SUBMINIATURE CONTROLS**  
Only 1/2" dia. Rated 1/4 watt linear, 1/2 watt audio. 1/4"-32 x 1/4" bushing with nut. Shaft: 1/8" dia. x 1 1/2" FMS, MLC (steel); 1/8" dia. x 3/8" FMS, MLCN (nylon). SPST switch rated 3 amps at 125 VAC, U/L Approved. MTC has open screw-driver slot. Type MLC Bushing Mount.

Mallory No.	Ohms	Taper	Switch	Net
MLC13L	1000	4		\$1.14
MLC222LS	2200	4	SPST	1.86
MLC225A	2500	1		1.14
MLC252AS	2500	1	SPST	1.86
MLC53A	5000	1		1.14
MLC53AS	5000	1	SPST	1.86
MLC53L	5000	4		1.14
MLC53LS	5000	4	SPST	1.86
MLC14AS	10K	1	SPST	1.86
MLC14L	10K	4		1.14
MLC54L	50K	4		1.14
MLC15A	100K	4		1.14
MLC15L	100K	4		1.14
MLC25L	200K	4		1.14
MLC254L	250K	4		1.14
MLC55A	500K	1		1.14
MLC55AS	500K	1	SPST	1.86
MLC55LS	500K	4	SPST	1.86
MLCN55L	500K	4		1.14
MLC16AS	1 meg	1		1.14
MLC16L	1 meg	4	SPST	1.86
MLCN16A	1 meg	1		1.14
MLCN16L	1 meg	4		1.14

Type MTC PC Mt. Linear taper, Net. 39¢

Vert. Mtg.	Horiz. Mtg.	Resis., Ohms
MTC12L1	MTC12L4	100
MTC22L1	MTC22L4	200
MTC251L1	MTC251L4	250
MTC32L1	MTC32L4	300
MTC52L1	MTC52L4	500
MTC751L1	MTC751L4	750
MTC13L1	MTC13L4	1000
MTC152L1	MTC152L4	1500
MTC23L1	MTC23L4	2000
MTC252L1	MTC252L4	2500
MTC33L1	MTC33L4	3000
MTC63L1	MTC63L4	6000
MTC682L1	MTC682L4	6800
MTC14L1	MTC14L4	10K
MTC153L1	MTC153L4	15K
MTC24L1	MTC24L4	20K
MTC253L1	MTC253L4	25K
MTC54L1	MTC54L4	50K
MTC15L1	MTC15L4	100K
MTC124L1	MTC124L4	120K
MTC184L1	MTC184L4	180K
MTC254L1	MTC254L4	250K
MTC3253L1	MTC3253L4	325K
MTC454L1	MTC454L4	450K
MTC55L1	MTC55L4	500K
MTC16L1	MTC16L4	1 meg
MTC26L1	MTC26L4	2 megs
MTC355L1	MTC355L4	3.5 megs



A detailed technical drawing of a mechanical component, likely a valve or actuator, shown in a cross-sectional view. The component features a central shaft with a threaded section and a handle or lever arm on the left. The internal mechanism includes a piston or plunger and a valve seat. The drawing is rendered in a classic engineering style with fine lines and hatching to indicate different materials and internal features.

### CARBON FRONT SECTIONS WITHOUT TAPS (CONT'D)

### CARBON FRONT SECTIONS WITHOUT TAPS

Mallory Number	Resistance, Ohms	Taper	Mallory Number	Resistance, Ohms	Taper
FA12L	100	4	FA14L	10K	4
FB12L	100	4	FA14R	10K	2
FC12L	100	4	FB14L	10K	4
FE12L	100	4	FC14R	10K	2
FA22L	200	4	FD14R	10K	2
FA251L	250	4	FE14A	10K	1
FB251L	250	4	FE14L	10K	4
FA32L	300	4	FF14A	10K	1
FD32L	300	4	FF14L	10K	4
FA351L	350	4	FG14A	10K	4
FC351L	350	4	FG14L	10K	1
FD351L	350	4	FH14A	10K	4
FA52L	500	4	FH14L	10K	4
FA52R	500	2	FJ14A	10K	1
FC52L	500	4	FJ14L	10K	4
FD52L	500	4	FK14A	10K	1
FA62L	600	4	FK14L	10K	4
FA62R	600	2	FL14A	10K	1
FB62L	600	4	FL14L	10K	4
FD62R	600	2	FM14L	10K	4
FA751L	750	4	FN14L	10K	4
FA751R	750	2	FO14L	10K	4
FB751R	750	2	FA153L	15K	4
FC751L	750	4	FB153L	15K	4
FC751R	750	2	FA24R	20K	2
FD751R	750	2	FA24L	20K	4
FA13L	1000	4	FE24L	20K	4
FF13L	1000	4	FF24L	20K	4
FA13R	1000	2	FA253L	25K	4
FB13L	1000	4	FA253R	25K	2
FC13R	1000	2	FC253L	25K	4
FD13L	1000	4	FD253L	25K	4
FD13R	1000	2	FE253L	25K	4
FE13L	1000	4	FF253A	25K	4
FF13R	1000	2	FF253L	25K	4
FA152L	1500	4	FG253L	25K	4
FA152R	1500	2	FA34A	30K	1
FB152A	1500	1	FA34L	30K	4
FB152R	1500	2	FA353L	35K	4
FC152R	1500	2	FA54L	50K	4
FD152L	1500	4	FA54R	50K	2
FD152R	1500	2	FB54A	50K	1
FF152R	1500	2	FB54L	50K	4
FA23L	2000	4	FC54L	50K	4
FA23R	2000	2	FE54A	50K	1
FB23L	2000	4	FE54L	50K	4
FB23R	2000	2	FD54L	50K	4
FD23R	2000	2	FF54A	50K	1
FF23L	2000	4	FF54L	50K	4
FA252L	2500	4	FG54L	50K	4
FA252R	2500	2	FH54L	50K	4
FB252L	2500	4	FI54L	50K	4
FB252R	2500	2	FK54L	50K	4
FD252R	2500	2	FL54L	50K	4
FF252R	2500	2	FM54L	50K	4
FA33L	3000	4	FN54L	50K	4
FA33R	3000	2	FA753L	75K	4
FB33L	3000	2	FA15A	100K	1
FC33L	3000	4	FE15A	100K	1
FD33R	3000	2	FA15L	100K	4
FF33R	3000	2	FB15L	100K	4
FA53L	5000	4	FC15L	100K	4
FA53R	5000	2	FD15L	100K	4
FC53R	5000	2	FE15L	100K	4
FD53L	5000	4	FF15A	100K	1
FF53R	5000	2	FF15L	100K	4
FF53A	5000	1	FG15A	100K	1
FA63L	6000	4	FG15L	100K	4
FE682L	6800	4	FH15A	100K	1
FF682L	6800	4	FH15L	100K	4
FG682L	6800	4	FI15L	100K	4
FH682L	6800	4	FJ15A	100K	1
FJ682L	6800	4	FJ15L	100K	4
FK682L	6800	4	FK15A	100K	1
FA14A	10K	1	FK15L	100K	4

Mailory Number	Resistance, Ohms	Taper	Mailory Number	Resistance, Ohms	Taper
FL15A	100K	1	FC155L	1.5 meg	4
FL15L	100K	4	FD155L	1.5 meg	4
FM15A	100K	1	FF155L	1.5 meg	4
FM15L	100K	4	FH155A	1.5 meg	1
FN15L	100K	4	FH155L	1.5 meg	4
FO15L	100K	4	FA26A	2 meg	1
FR15L	100K	4	FA26L	2 meg	4
FS15L	100K	4	FA26R	2 meg	2
FT15A	100K	1	FB26A	2 meg	4
FU15A	100K	1	FB26L	2 meg	4
FV15A	100K	1	FC26L	2 meg	4
FW15A	100K	1	FC26R	2 meg	4
FX15L	100K	4	FD26L	2 meg	4
FB124LS	120K*	4	FE26A	2 meg	1
FA154L	150K	4	FEA26L	2 meg	1
FB154L	150K	4	FEB26A	2 meg	1
FD154L	150K	4	FEC26A	2 meg	1
FA25L	200K	4	FED26A	2 meg	1
FC25L	200K	4	FF26A	2 meg	1
FD25L	200K	4	FE26L	1.5 meg	4
FI25A	200K	1	FF26L	2 meg	1
FD2253L	225K	4	FG26A	2 meg	1
FA254A	250K	1	FH26A	2 meg	1
FA254L	250K	4	FI26A	2 meg	1
FD254A	250K	1	FJ26A	2 meg	1
FE254L	250K	4	FK26A	2 meg	1
FF254L	250K	1	FL26A	2 meg	1
FG254A	250K	1	FM26A	2 meg	1
FG254L	250K	4	FN26A	2 meg	1
FH254A	250K	1	FO26A	2 meg	4
FI254A	250K	1	FQ26A	2 meg	1
FJ254A	250K	1	QF26L	2 meg	4
FB35L	300K	4	FR26L	2 meg	1
FE35A	300K	1	FR26L	2 meg	1
FF35A	300K	1	FS26A	2 meg	1
FJ35A	300K	1	FT26A	2 meg	1
FB45L	400K	4	FU26A	2 meg	1
FA55A	500K	1	FV26A	2 meg	1
FA55L	500K	4	FW26A	2 meg	1
FA55R	500K	2	FX26A	2 meg	1
FB55A	500K	1	FY26A	2 meg	1
FB55L	500K	4	FA255L	2.5 meg	4
FC55A	500K	1	FB255L	2.5 meg	4
FC55R	500K	2	FF255A	2.5 meg	1
FD55L	500K	4	FG255A	2.5 meg	1
FD55R	500K	2	FH255A	2.5 meg	1
FE55A	500K	1	FA36A	3 meg	1
FE55L	500K	4	FA36L	3 meg	4
FF55A	500K	1	FA36R	3 meg	2
FF55L	500K	4	FB36L	3 meg	4
FG55A	500K	1	FC36A	3 meg	1
FG55A	500K	1	FE355L	3.5 meg	4
FJ55A	500K	1	FF355L	3.5 meg	4
FK55A	500K	1	FA46L	4 meg	4
FL55A	500K	1	FA46X	4 meg	4
FM55L	500K	4	FE46X	4 meg	†
FN55A	500K	1	FB46L	4 meg	4
FO55A	500K	1	FB46R	4 meg	2
FQ55A	500K	1	FF46X	4 meg	†
FQ55R	500K	2	FG46L	4 meg	4
FR55A	500K	1	FB455L	4.5 meg	4
FS55A	500K	1	FA56A	5 meg	1
FB65L	600K	4	FA56L	5 meg	4
FA754L	750K	4	FB56A	5 meg	1
FA16A	1 meg	1	FC56L	5 meg	4
FA16L	1 meg	4	FD56R	5 meg	2
FA16R	1 meg	2	FE56R	5 meg	2
FB16A	1 meg	1	FF56A	5 meg	1
FB16L	1 meg	4	FG56A	5 meg	1
FC16A	1 meg	1	FH56A	5 meg	1
FC16L	1 meg	4	FH56L	5 meg	4
FD16L	1 meg	4	FH56X	5 meg	†
FE16A	1 meg	1	FI56X	5 meg	†
FF16A	1 meg	1	FJ56X	5 meg	†
FF16L	1 meg	4	FK56L	5 meg	4
FF16R	1 meg	2	FL56X	5 meg	†
FG16A	1 meg	1	FM56X	5 meg	†
FG16L	1 meg	4	FN56X	5 meg	†
FH16A	1 meg				

\*50K ohm stop. †Split control elements.

**Wire-Wound Front Section Tapped—**  
Any model. Net Each.....**\$1.14**

**Wire-Wound Front Section Without Taps**  
—Any model. Net Each.....**99c**

TAPPED			
Mallory Number	Resis., Ohms	Tap, Ohms	Taper
WW12T51	100	50	4
WW751T251	750	250	4
WW751T52	750	500	4
WW152T52	1500	500	4

Mallory Number	Resis., Ohms	Tape	Mallory Number	Resis., Ohms	Tape
WW12L	100	4	WW152L	1500	4
WW22L	200	4	WW23L	2000	4
WW251L	250	4	WW252L	2500	4
WW32L	300	4	WW33L	3000	4
WW72L	700	4	WW33R	3000	2
WW751A	750	1	WW53L	5000	4
WW751L	750	4	WW73L	7000	4
WW751R	750	2	WW153L	15K	4
WW13L	1000	4			

Mallory No.	Bushing Dia. x L., In.	Mallory No.	Bushing Dia. x L., In.
TS1	1/2 x 3/4	TS8	1/2 x 1 3/4
TS2	7/16 x 1 1/32	TS9	1/2 x 1 3/16
TS3	1/2 x 1 1/32	TS10	9/16 x 2 1/8
TS4	1/2 x 7/16	TS11	3/8 x 1 1/32
TS5	1/2 x 7/16	TS12	3/8 x 1/4
TS6	1/2 x 1 1/16	TS13	1/2 x 1 11/32

- **FPP1 Push-Pull Switch—(SPST) attaches to any Sta-Loc front section. Net. \$1.18**

**STA-LOC CONTROLS CONTINUED ON NEXT PAGE**



## CARBON FRONT SECTIONS (CONT'D)

### TAPPED FRONT SECTIONS

Tapped—Any model. Net Each...\$1.26

Mallory Number	Resis., Ohms	#1 Tap Ohms	#2 Tap Ohms	Taper
FA12T51	100	50	.....	4
FB52T75	500	75	.....	1
FD52T225†	500	200	.....	4
FB52T351	500	350	.....	2
FB52T425	500	425	.....	2
FA62T52	600	500	.....	2
FA75T52	750	500	.....	2
FD75T52	750	500	.....	4
FA13T751	1000	750	.....	4
FB152T22	1500	200	.....	2
FD152DT375	1500	1125	1313	2
FC152T142	1500	1400	.....	2
FA23DT52	2000	250	500	4
FA23DT1751	2000	1500	1750	2
FD23T152	2000	1500	.....	2
FA252T52	2500	500	.....	2
FF252T142	2500	1400	.....	2
FA252T152	2500	1500	.....	2
FA252T23	2500	2000	.....	2
FD252T23	2500	2000	.....	2
FA33T252	3000	2500	.....	2
FC153DT73	15K	4K	7K	4
FA153DT93	15K	4.5K	9K	4
FA153T14	15K	10K	.....	4
FA24T14	20K	10K	.....	4
•FG24T14	20K	10K	.....	1
FA254T1253	250K	125K	.....	4
FA55T54	500K	50K	.....	1
FA55T15	500K	100K	.....	1
FB55DT25	500K	100K	200K	4
FA55T1253	500K	125K	.....	4
FA55DT334	500K	125K	330K	4
FB55T154	500K	150K	.....	1
FA55T254	500K	250K	.....	4
FA55T35	500K	300K	.....	4
FB16T15	1 meg	100K	.....	4
FC16T254	1 meg	250K	.....	1
FA16T35	1 meg	300K	.....	1
FB16T55	1 meg	500K	.....	4
FA26T55	2 meg	500K	.....	2
FR26T55	2 meg	500K	.....	1
FC26DT16	2 meg	500K	1 meg	4
FA26DT16	2 meg	500K	1 meg	4
FB26T75	2 meg	700K	.....	1
FA26DT155	2 meg	750K	1.5 meg	4
FA26T16	2 meg	1 meg	.....	1
FA36DT155	3 meg	350K	1.5 meg	1
FA36T95	3 meg	900K	.....	4
FA36T155	3 meg	1.5 meg	.....	1
FA46T55	4 meg	500K	.....	1
FF46T55	4 meg	500K	.....	4

†Stop at 100 ohms.

## REAR SECTION CONTROLS

Without Taps—Net Each.....54c

Tapped—Net Each.....96c

### REAR SECTIONS WITHOUT TAPS

Mallory No. RU-	Resis. Ohms	Taper	Mallory No. RU-	Resis. Ohms	Taper
12L	100	4	154L	150K	4
22L	200	4	25A	200K	4
52L	500	4	25L	200K	4
651L	650	4	254A	250K	1
751L	750	4	254L	250K	4
13L	1000	4	35A	300K	1
13R	1000	2	35L	300K	4
122R	1200	2	334A	330K	1
152L	1500	4	354A	350K	1
152R	1500	2	45L	400K	4
23L	2000	4	55A	500K	1
23R	2000	2	55R	500K	2
252A	2500	1	55L	500K	4
252L	2500	4	754L	750K	4
252R	2500	2	16A	1 meg	1
33R	3000	2	16L	1 meg	4
352R	3500	2	16R	1 meg	2
452R	4500	2	115LS	1.1 meg	4
53A	5000	1	155A	1.5 meg	1
53L	5000	4	155L	1.5 meg	4
63L	6000	4	155LS	1.5 meg*	4
73A	7000	1	1754L	1.75 meg	4
752L	7500	4	26A	2 meg	1
14A	10K	1	26L	2 meg	4
14L	10K	4	26R	2 meg	2
14R	10K	2	255A	2.5 meg	1
153L	15K	4	255L	2.5 meg	4
24A	20K	1	36A	3 meg	1
253L	25K	4	36L	3 meg	4
34L	30K	4	36R	3 meg	2
54A	50K	1	46L	4 meg	4
54L	50K	4	455A	4.5 meg	1
54R	50K	2	56A	5 meg	1
753L	75K	4	56L	5 meg	4
15A	100K	1	56R	5 meg	2
15L	100K	4	755A	7.5 meg	1

\*350K ohm stop. \*40K ohm stop.

## REAR SECTION CONTROLS (CONT'D)

### TAPPED REAR SECTIONS

Mallory Number	Resis., Ohms	#1 Tap Ohms	#2 Tap Ohms	Taper
RU751T42	750	400	.....	4
RU152T181	1500	180	.....	1
RU752T222	7500	2200	.....	1
RU752T53	7500	5000	.....	1
RU14DT53	10K	1K	5K	4
RU14T53	10K	5K	.....	4
RU153T14	15K	10K	.....	4
RU24T14	20K	10K	.....	4
RU253T53	25K	5K	.....	1
RU34T24	30K	20K	.....	4
RU44T14	40K	10K	.....	4
RU54DT353	50K	20K	35K	4
RU15DT54	100K	25K	50K	4
RU154T653	150K	65K	.....	1
RU254T34	250K	30K	.....	1
RU254T64	250K	60K	.....	1
RU254T753	250K	75K	.....	1
RU254T15	250K	100K	.....	1
RU254T1253	250K	125K	.....	4
RU254T154	250K	150K	.....	1
RU254T164	250K	160K	.....	4
RU35T54	300K	50K	.....	1
RU35T553	300K	55K	.....	1
RU35T583	300K	58K	.....	1
RU35T74	300K	70K	.....	1
RU35T94	300K	90K	.....	4
RU334T553	330K	55K	.....	1
RU334T653	330K	65K	.....	1
RU334T663	330K	66K	.....	1
RU334T753	330K	75K	.....	1
RU334T15	330K	100K	.....	4
RU354T64	350K	60K	.....	1
RU364T683	360K	68K	.....	1
RU55T44	500K	40K	.....	1
RU55T423	500K	42K	.....	1
RU55T453	500K	45K	.....	1
RU55T54	500K	50K	.....	1
RU55T64	500K	60K	.....	1
RU55T653	500K	65K	.....	1
RU55T15	500K	100K	.....	4
RU55DT25	500K	100K	200K	4
RU55T124	500K	120K	.....	1
RU55T1353	500K	135K	.....	1
RU55T154	500K	150K	.....	1
RU55DT334	500K	150K	330K	4
RU55T184	500K	180K	.....	4
RU55DT354	500K	200K	350K	4
RU55T224	500K	220K	.....	1
RU55T254	500K	250K	.....	4
RU55T274	500K	270K	.....	4
RU55T35	500K	300K	.....	4
RU754T154	750K	150K	.....	4
RU754T184	750K	180K	.....	1
RU754T25	750K	200K	.....	1
RU16T253	1 meg	25K	.....	1
RU16DT64	1 meg	40K	60K	1
RU16T453	1 meg	45K	.....	1
RU16T54	1 meg	50K	.....	1
RU16T94	1 meg	90K	.....	1
RU16T15	1 meg	100K	.....	1
RU16DT55	1 meg	100K	500K	4
RU16T1253	1 meg	125K	.....	4
RU16T164	1 meg	160K	.....	1
RU16T184	1 meg	180K	.....	1
RU16T25	1 meg	200K	.....	1
RU16T224	1 meg	220K	.....	1
RU16T2253	1 meg	225K	.....	1
RU16T254	1 meg	250K	.....	1
RU16T274	1 meg	270K	.....	1
RU16T35	1 meg	300K	.....	1
RU16T334	1 meg	330K	.....	1
RU16T354	1 meg	350K	.....	1
RU16T45	1 meg	400K	.....	4
RU16DT754	1 meg	400K	750K	4
RU16T55	1 meg	500K	.....	4
RU16T65	1 meg	600K	.....	4
RU16T654	1 meg	650K	.....	4
RU16T85	1 meg	800K	.....	4
RU125T254	1.2 meg	250K	.....	1
RU155DT55	1.5 meg	250K	500K	1
RU155T35	1.5 meg	300K	.....	1
RU155T354	1.5 meg	350K	.....	1
RU155T55	1.5 meg	500K	.....	1
RU155T754	1.5 meg	750K	.....	4
RU26T35	2 meg	300K	.....	1
RU26T354	2 meg	350K	.....	1
RU26T45	2 meg	400K	.....	1
RU26DT75	2 meg	400K	700K	1
RU26T55	2 meg	500K	.....	1
RU26DT16	2 meg	600K	1 meg	4
RU26T65	2 meg	700K	.....	1
RU26DT125	2 meg	800K	1.2 meg	4
RU26T95	2 meg	900K	.....	4
RU26T16	2 meg	1 meg	.....	4
RU26T125	2 meg	1.2 meg	.....	4
RU26T155	2 meg	1.5 meg	.....	4
RU36T155	3 meg	350K	1.5 meg	1
RU36T16	3 meg	1 meg	.....	4
RU36T155	3 meg	1.5 meg	.....	1
RU56T16	5 meg	1 meg	.....	1
RU56T26	5 meg	2 meg	.....	4

## PUSH-PULL REAR SECTION SWITCHES

Combination rear section and push-pull switch (SPST).

Rear Section Without Taps—Net...\$1.35

Rear Section Tapped—Net Each... 1.65

Mallory Number	Resis., Ohms	Tap, Ohms	Taper
RUP751R	750	.....	2
RUP53A	5K	.....	1
RUP153A	15K	.....	1
RUP54A	50K	.....	1
RUP154L	150K	.....	4
RUP25A	200K	.....	1
RUP55A	500K	.....	1
RUP55T154	500K	150K	4
RUP16A	1 meg	.....	1
RUP16L	1 meg	.....	4
RUP16T54	1 meg	50K	1
RUP16T254	1 meg	250K	1
RUP16T1253	1 meg	125K	4
RUP16T35	1 meg	300K	1
RUP26A	2 meg	.....	1
RUP26T16	2 meg	1 meg	4
RUP26T1254	2 meg	1.25 meg	4
RUP255L	2.5 meg	.....	4
RUP36T155	3 meg	1.5 meg	4

## STA-LOC UA CONTROLS

Univ., single; use SF-, SK-, SN-1000 or SL3500 shafts, or any Sta-Loc switch.

Untapped—Net Each..... 63c

Tapped—Net Each..... 85c

### WITHOUT TAPS

Mallory Number	Resis., Ohms	Taper	Mallory Number	Resis., Ohms	Taper
UA12L	100	4	UA54R	50K	2
UA52L	500	4	UA753A	75K	1
UA52R	500	2	UA15A	100K	1
UA751A	750	1	UA15L	100K	4
UA751R	750	2	UA15R	100K	2
UA13L	1K	4	UA1253L	125K	4
UA13R	1K	2	UA154A	150K	1
UA152L	1500	4	UA25L	200K	4
UA152R	1500	2	UA254A	250K	1
UA23L	2K	4	UA254L	250K	4
UA252R	2500	2	UA254R	250K	2
UA33L	3K	4	UA55A	500K	1
UA33R	3K	2	UA55L	500K	4
UA53A	5K	1	UA754A	750K	1
UA53L	5K	4	UA16A	1 meg	1
UA14A	10K	1	UA16L	1 meg	4
UA14L	10K	4	UA16R	1 meg	2
UA14R	10K	2	UA155L	1.5 meg	4
UA153A	15K	1	UA26A	2 meg	1
UA153R	15K	2	UA26L	2 meg	4
UA24A	20K	1	UA256L	2.5 meg	4
UA24L	20K	4	UA36A	3 meg	1
UA253A	25K	1	UA36L	3 meg	4
UA253L	25K	4	UA56A	5 meg	1
UA253R	25K	2	UA56L	5 meg	4
UA34L	30K	4	UA56R	5 meg	2
UA54A	50K	1	UA755L	7.5 meg	4
UA54L	50K	4	UA17L	10 meg	4



# STA-LOC® Controls

## STA-LOC SHAFTS

**Please Note:** Type OX Sta-Loc shafts replace Type OF and Type OS Sta-Loc shafts listed in previous catalogs. Type OF stands for "outer flattened" and Type OS stands for "outer slotted." We have combined the slot and the flat onto the end of a single shaft so that we have a shaft that will replace either a flattened original or a slotted original, and this new shaft has been given the prefix OX.

**Standard Shafts—Net Each**..... **39c**  
**IU6500, OU6000—Net Each**..... **65c**

Mallory No.	Shaft L., In.	Mallory No.	Shaft L., In.	Mallory No.	Shaft L., In.
IK625	5/8	IS2687	2 1/16	OX875	7/8
IK750	3/4	IS2750	2 3/4	OX875A	7/8
IK875	7/8	IS2812	2 1/4	OX937	1 1/16
IK937	1 1/16	IS2875	2 7/8	OX937A	1 1/16
IK1000	1	IS2937	2 1/4	OX1000	1
IK1187	1 1/16	IS3000	3	OX1000A	1
IK1250	1 1/4	IS3062	3 1/16	OX1062	1 1/16
IK1312	1 3/16	IS3125	3 1/8	OX1125	1 1/8
IK1375	1 3/8	IS3187	3 1/16	OX1187	1 3/16
IK1437	1 7/16	IS3250	3 1/4	OX1250	1 1/4
IK1500	1 1/2	IS3312	3 3/16	OX1250A	1 1/4
IK1625	1 5/8	IS3375	3 3/8	OX1312	1 5/8
IK1750	1 3/4	IS3437	3 7/8	OX1375	1 7/8
IK1812	1 11/16	IS3500	4	OX1437	1 7/8
IK1875	1 7/8	IS3562	3 1/16	OX1437A	1 7/8
IK2000	2	IS3687	3 1/16	OX1500	1 1/2
IK2062	2 1/16	IS3750	3 3/4	OX1500A	1 1/2
IK2187	2 3/16	IS3875	3 7/8	OX1562	1 9/16
IK2250	2 1/4	IS3937	3 3/16	OX1562A	1 9/16
IK2312	2 5/16	IS4000	4	OX1625	1 5/8
IK2375	2 3/8	IS4062	4 1/16	OX1687	1 11/16
IK2437	2 7/16	IS4250	4 1/4	OX1687A	1 11/16
IK2500	2 1/2	IS4437	4 1/2	OX1750	1 3/4
IK2625	2 5/8	IS4500	4 1/2	OX1812	1 13/16
IK2687	2 11/16	IS4812	4 11/16	OX1812A	1 13/16
IK2750	2 3/4	IS4937	4 3/16	OX1875	1 7/8
IK3000	3	IS5625	5 5/8	OX1875A	1 7/8
IK3125	3 1/8	IS5750	5 1/4	OX1937	1 15/16
IK3250	3 1/4	IU3500	6 1/2	OX2000	2
IK3750	3 3/4	IU6500	6 1/2	OX2062	2 1/16
IK4062	4 1/16	OX375	1 7/8	OX2125	2 1/8
IK5000	5	OX625	2 5/8	OX2187	2 3/8
IS437	7/16	OX812	1 3/16	OX2250	2 1/4
IS875	7/8	OX1000	1	OX2250A	2 1/4
IS937	1 1/16	OX1062	1 1/16	OX2312	2 5/16
IS1000	1	OX1125	1 1/8	OX2375	2 3/8
IS1062	1 1/16	OX1250	1 1/4	OX2437	2 7/16
IS1125	1 1/8	OX1312	1 5/8	OX2500	2 1/2
ISA1187	1 3/16	OX1375	1 7/8	OX2562	2 9/16
IS1187	1 3/16	OX1500	1 1/2	OX2625	2 5/8
IS1250	1 1/4	OX1625	1 5/8	OX2687	2 11/16
IS1312	1 5/16	OX1687	1 11/16	OX2687A	2 11/16
IS1375	1 3/8	OX1750	1 3/4	OX2750	2 3/4
IS1437	1 7/16	OX2125	2 1/8	OX2812	2 13/16
IS1500	1 1/2	OX2250	2 1/4	OX2812A	2 13/16
IS1562	1 9/16	OX2312	2 5/16	OX2875	2 7/8
IS1625	1 5/8	OX2375	2 3/8	OX2937	2 15/16
IS1687	1 11/16	OX3062	3 1/16	OX3000	3
IS1750	1 3/4	OX3125	3 1/8	OX3062	3 1/16
IS1812	1 13/16	OX3250	3 1/4	OX3500	3 1/2
IS1875	1 7/8	OX3312	3 5/16	OX3562	3 9/16
IS1937	1 9/16	OX3375	3 3/8	OX3625	3 5/8
IS2000	2	OX3437	3 7/16	OX3750	3 3/4
IS2062	2 1/16	OX437	7/16	OX4000	4
IS2125	2 1/8	OX437A	7/16	OX4187	4 3/16
IS2187	2 3/16	OX500	1 1/2	OX5250	5 1/4
IS2250	2 1/4	OX562	3 1/16	OX5312	5 7/16
IS2312	2 5/16	OX562A	3 1/16		
IS2375	2 3/8	OX625	2 5/8		
IS2437	2 7/16	OX687	1 11/16		
IS2500	2 1/2	OX750	3/4		
IS2562	2 9/16	OX750A	3/4		
IS2625	2 5/8	OX812	1 3/16		

\*FMS †Hallow shaft, 3 1/16.

## • EXACT REPLACEMENT SINGLE SHAFT

Exact duplicate, flat mill Delrin\* shaft for single controls will replace original control shaft length without modification; for use with UA and RU controls. Shaft lengths are measured from mounting surface (FMS) of control.

**Replacement Single Shafts—Net Each**..... **39c**

.187" Diameter			.250" Diameter		
Mallory No.	L., FMS Inches	.156" Flat L., Inches	Mallory No.	L., FMS Inches	.156" Flat L., Inches
SD750	.750	.437	SN750	.750	.437
SD875	.875	.562	SN875	.875	.562
SD1000	1.000	.562	SN1125	1.125	.562
SD1125	1.125	.562	SN1375	1.375	.562
SD1187	1.187	.875	SN1500	1.500	.562
SD1250	1.250	.562	SN1625	1.625	.562
SD1375	1.375	.562	SN1750	1.750	.562
SD1500	1.500	.562	SN1875	1.875	.562
SD1625	1.625	.562	SN2125	2.125	.562
SD1750	1.750	.562	SN2250	2.250	.562
SD1875	1.875	.562	SN2375	2.375	.562
SD2000	2.000	.562	SN2500	2.500	.562
SD2125	2.125	.562			
SD2250	2.250	.562			
SD2375	2.375	.562			
SD2500	2.500	.562			

\*DuPont trademark.

## ADAPTERS, SWITCHES AND TOOLS

Mallory No.	Description	Net Each
SL32	Inner shaft time slug	\$ 0.03
SL250	Adapts 1/4" knob to 3/16" shaft	.06
SF3062	3/16" x 3 1/16" front single shaft	.399
SF3000	1/4" x 3" front single shaft	.399
CS265	Dual-tand. adapter (RUP-front)	.399
SL45	3/16" x 2 7/8" dual-tandem shaft	.399
CS3500	1/4" x 3 1/2" dual-tandem shaft	.399
SL35	3/16" x 32 x 1/4" bushing for inner shaft	.399
SL36	3/16" x 32 x 1/4" bushing for SL3250	.399
SL3250	.235" x 3 1/4" shaft for SL36	.399
SL37	Tab-mount adapter bushing	.399
SL38	3/16" x 32 x 1/4" adapter bushing	.399
SL39	3/16" x 32 x 3/16" adapter bushing	.399
SL40	PC "Dog-house" adapter bushing	.45
SL41	3/16" x 1 3/16" bushing	.399
SLF37	Front tab-mount adapter	.399
SK750	1/4" x 3/4" knurled shaft	.399
SK1000	1/4" x 1" knurled shaft	.399
SF1000	1/4" x 1" round, flattened shaft	.399
SL2500	1/4" x 2 1/2" round shaft	.399
SL3500	1/4" x 3 1/2" knurled shaft; flat, slot	.399
SK3500	1/4" x 3 1/2" double slot, knurled shaft	.399
SN281	1/4" x 3/32" Delrin shaft	.399
SN1000	1/4" x 1" Delrin shaft	.399
SN2000	1/4" x 2" Delrin shaft	.399
SD1187	3/16" x 1 1/16" Delrin shaft	.399
SD3500	3/16" x 3 1/2" shaft; flat, slot	.399
SP2000	2" plastic shaft extender	.42
US41	SPST switch	.33
USP1	PC adapter for US41	.51
US42	DPST switch	.36
USP2	PC adapter for US42	.51
US43	SPDT switch	.51
SP1	Replacement push-push SPST switch	.51
SL100	Dual control separator tool	.66
SL101	Inner shaft removal tool	.66
SL102	Front assembly tool	.99
SL103	Rear assembly tool	.99
SL104	Bushing assembly tool	.99
UAK1	Single control kit*	24.94
SLD1B	Junior dual control kit*	61.99
SLD2B	Senior dual control kit*	142.51

\*With cabinet, parts, guide, instructions.

## A BRIEF DESCRIPTION OF STA-LOC

Sta-Loc is a system. It provides exact replacement controls and at the same time eliminates huge inventory problems. The system includes components to assemble an infinite variety of single, dual, or dual tandem controls in mere seconds.

Sta-Loc components are divided into four classifications.

- 1) Front section controls which include carbon controls, wire-wound controls and tone switches.
- 2) Rear section controls, all of which are carbon types.
- 3) Switches which include three universal types: US41 (SPST), US42 (DPST), US43 (SPDT).

- 4) Shafts that are available in lengths to fit virtually all usual applications.

Special accessories are available for use with Sta-Loc controls which enhance the versatility of this line.

In addition to individual components, the Sta-Loc control system is available to service technicians and dealers in kits housed in sturdy metal cabinets.

For more complete information about Mallory Sta-Loc, contact your local Mallory distributor or Mallory Distributor Products Company, Indianapolis, Indiana.

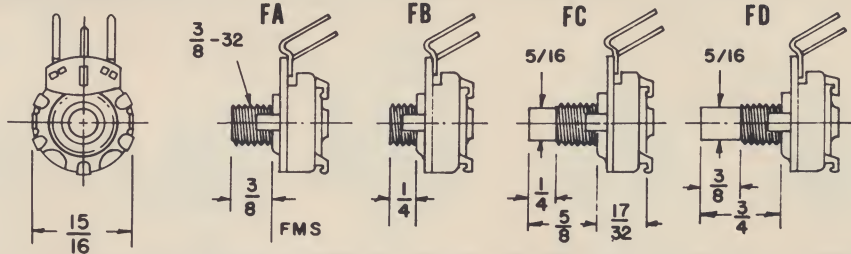


# STA-LOC® Controls

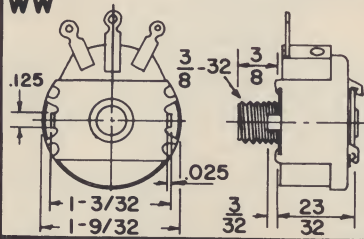
## STANDARD STA-LOC® CARBON FRONT SECTIONS

SEE BULLETIN 9-214  
FOR OTHER BUSHING  
DIMENSIONS  
(FE, FF, etc.)

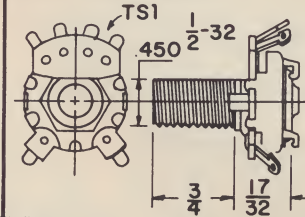
FMS = Front Mounting Surface



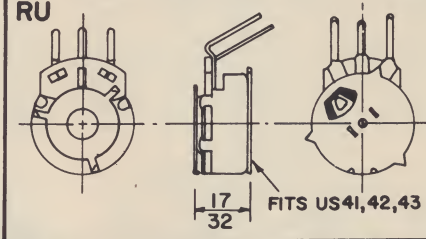
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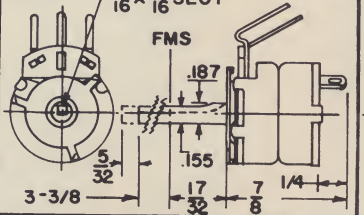
TS - TONE SWITCH



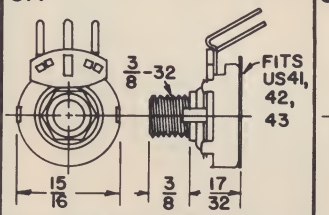
RU



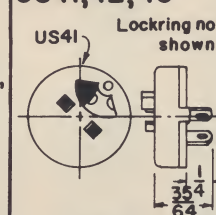
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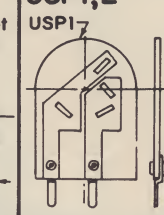
UA



US41, 42, 43



USP1, 2

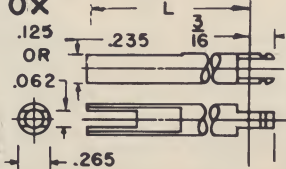


SL250



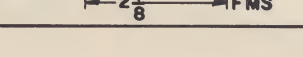
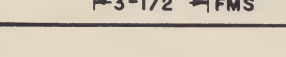
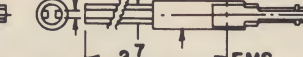
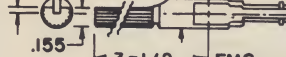
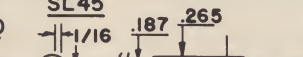
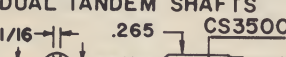
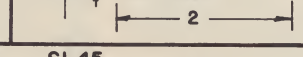
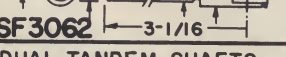
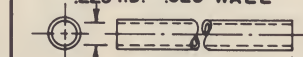
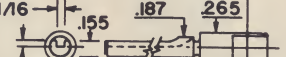
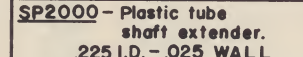
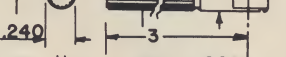
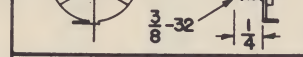
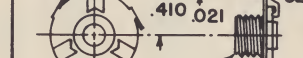
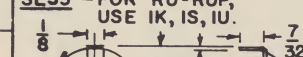
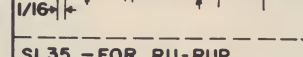
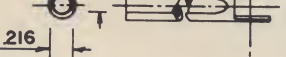
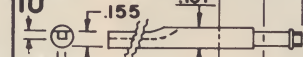
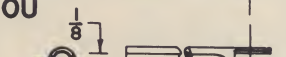
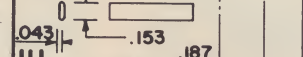
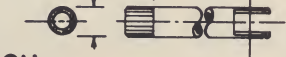
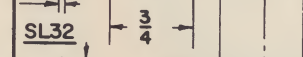
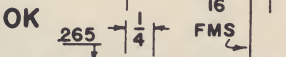
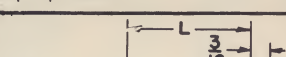
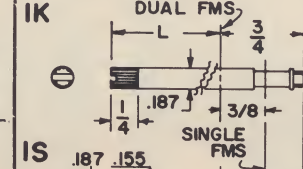
### OUTER SHAFTS

FIT F, WW, TS & TF

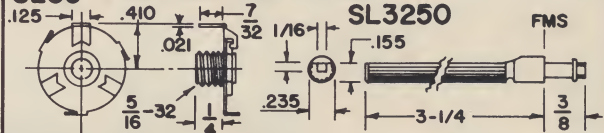


### INNER SHAFTS

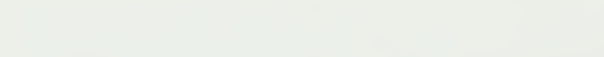
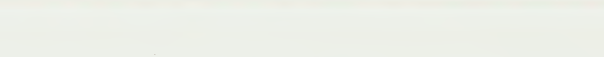
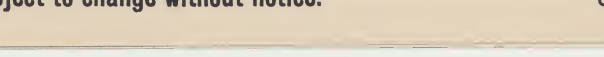
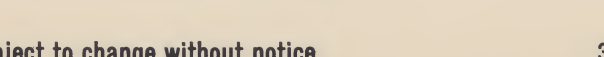
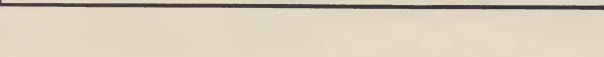
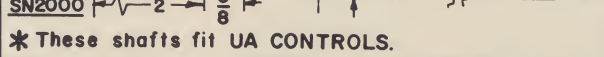
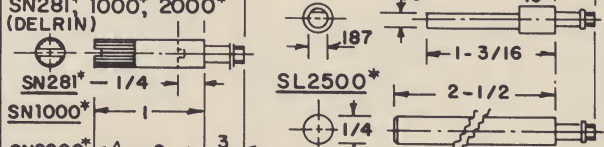
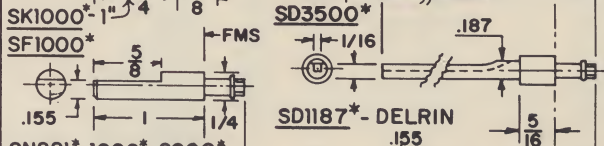
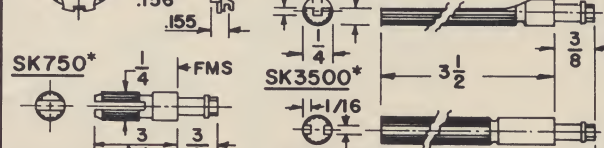
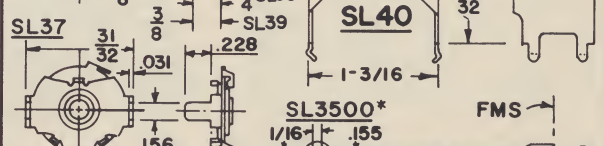
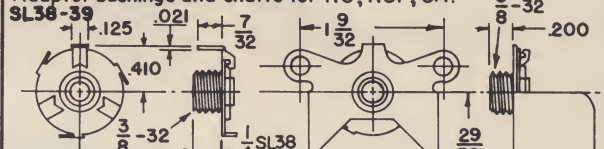
FIT RU CONTROLS



SL36 - FOR RU ONLY - USE SL3250.



Adapter bushings and shafts for RU, RUP, UA.





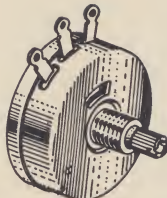
# Wire-wound Controls



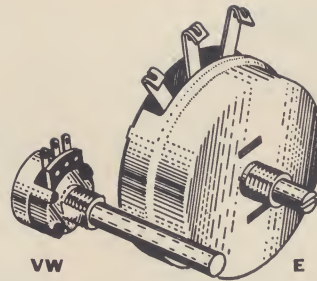
C



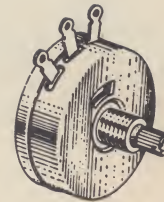
R



M



VW



MG

## 2 WATT TYPE C

Rated 2 watts at 40° C. 1 1/4" diameter. Mech. Rotation: 280°. Elec. Rotation: 255°. Resis. Tolerance: ±10%. Contact arm grounded. Bushing: 3/8"-32 x 3/8". Shaft: 1/4" dia. x 3/4" FMS with screwdriver slot. Furn. with nut.

### POTENTIOMETERS

Mallory No.	Ohms Resis.	Carrying Capacity In Amps	Net Each
C6P	6	.58	\$1.08
C10P	10	.45	1.08
C15P	15	.37	1.08
C20P	20	.32	1.08
C30P	30	.26	1.08
C40P	40	.22	1.08
C50P	50	.2	1.08
C100P	100	.14	1.08
C200P	200	.1	1.08
C400P	400	.07	1.08
C1MP	1K	.045	1.20
C3MP	3K	.025	1.20
C5MP	5K	.02	1.47
C6MP	6K	.018	1.47
C10MP	10K	.014	1.47
C15MP	15K	.011	1.47

### RHEOSTATS\*

Mallory No.	Ohms Resis.	Carrying Capacity In Amps	Net Each
C6R	6	.58	93c
C10R	10	.45	93c
C15R	15	.37	93c
C20R	20	.32	93c
C30R	30	.26	93c
C40R	40	.22	93c
C50R	50	.2	93c
C100R	100	.14	93c

\*\*"Open" or "off" position counter-clockwise.

## 3 WATT TYPE R

Standard TV wire-wound control rated 3 watts at 40° C. 1 1/4" diameter. Mech. Rotation: 297°. Elec. Rotation: 290°. Voltage Breakdown: 900 VAC rms. Bushing: 3/8"-32 x 1/4". Shaft: 1/4" dia. x 1 1/2" FMS, knurled with screwdriver slot. Furn. with nut. See listing below for switches for R controls.

Mallory No.	Ohms Resis.	Net Each	Mallory No.	Ohms Resis.	Net Each
R2L	2	\$0.93	R50CT†	50	\$1.32
R3L	3	.93	R100L	100	.93
R5L	5	.93	R250L	250	.93
R6L	6	.93	R500L	500	.93
R8L	8	.93	R750L	750	.93
R10L	10	.93	R1000L	1000	.93
R10CT†	10	1.32	R1500L	1500	.93
R15L	15	.93	R2500L	2500	.93
R20L	20	.93	R3000L	3000	.93
R20CT†	20	1.32	R5000L	5000	.93
R25L	25	.93	R7500L	7500	1.08
R30L	30	.93	R10ML	10000	1.08
R30CT†	30	1.32	R15ML	15000	1.08
R50L	50	.93	R20ML	20000	1.08

†Center-tapped controls.

### SWITCHES FOR TYPE R POTS

Mall. No.	Description	Net
US30	Single Pole, Single Throw	42c
US32	Double Pole, Single Throw	54c

### TV FOCUS CONTROLS

Mallory No.	Resis., Ohms	Shaft	Net Each
TVF140	1500	1/4" dia. x 2 1/2" lg.	\$1.35
TVF143	2500	1/4" dia. x 2 lg.	1.35

## 4 WATT TYPE M

Rated 4 watts at 40° C. 1 1/2" diameter. Mech. Rotation: 294°. Elec. Rotation: 275°. Resis. Tolerance: ±10%. Voltage Breakdown: 900 VAC rms. Bushing: 3/8"-32 x 3/8" FMS. Shaft: 1/4" dia. x 3/4" FMS, knurled with screwdriver slot. Furn. with nut.

### POTENTIOMETERS

Mallory Number	Ohms Resis.	Capacity In Amps	Net Each
M1PK	1	2.00	\$1.35
M3PK	3	1.15	1.35
M6PK	6	.82	1.35
M10PK	10	.63	1.35
M15PK	15	.52	1.35
M20PK	20	.45	1.35
M25PK	25	.40	1.35
M30PK	30	.37	1.35
M40PK	40	.32	1.35
M50PK	50	.28	1.35
M60PK	60	.26	1.35
M75PK	75	.23	1.35
M100PK	100	.20	1.35
M200PK	200	.14	1.35
M300PK	300	.116	1.35
M400PK	400	.10	1.35
M500PK	500	.09	1.35
M600PK	600	.082	1.35
M1MPK	1K	.063	1.35
M1.5MPK	1.5K	.052	1.35
M2MPK	2K	.045	1.35
M2.5MPK	2.5K	.04	1.35
M3MPK	3K	.037	1.35
M4MPK	4K	.032	1.35
M5MPK	5K	.028	1.35
M10MPK	10K	.02	1.35
M15MPK	15K	.016	1.47
M20MPK	20K	.014	1.47
M25MPK	25K	.013	1.47
M50MPK	50K	.009	1.74
M70MPK	70K	.0075	1.74
M75MPK	75K	.0073	2.46
M100MPK	100K	.0063	2.46

### CENTER-TAPPED POTENTIOMETERS

Mallory Number	Ohms Resis.	Capacity In Amps	Net Each
MT10PK	10	.63	\$1.32
MT20PK	20	.45	1.32
MT30PK	30	.37	1.32

### RHEOSTATS\*

Mallory Number	Ohms Resis.	Capacity In Amps	Net Each
M05RK	0.5	2.80	93c
M1RK	1	2.00	93c
M2RK	2	1.40	93c
M3RK	3	1.15	93c
M4RK	4	1.00	93c
M6RK	6	.82	93c
M10RK	10	.63	93c
M15RK	15	.52	93c
M20RK	20	.45	93c
M25RK	25	.40	93c
M30RK	30	.37	93c
M40RK	40	.32	93c
M50RK	50	.28	93c
M60RK	60	.26	93c
M75RK	75	.23	93c
M100RK	100	.20	93c

\*\*"Open" or "Off" position counter-clockwise.

## 5 WATT TYPE VW SUBMINIATURE

Rated 5 watts at 35° C. 3/4" diameter. Mech. Rotation: 305°. Elec. Rotation: 275°. Resis. Tolerance: ±10%. Voltage Breakdown: 900 VAC rms. Bushing: 3/8"-32 x 3/8". Shaft: 1/4" dia. x 2 1/2" FMS. Furn. with nut and lug.

Mallory No.	Ohms Resis.	Net Each	Mallory No.	Ohms Resis.	Net Each
VW1	1	\$1.38	VW300	300	\$1.38
VW2	2	1.38	VW400	400	1.38
VW3	3	1.38	VW500	500	1.38
VW5	5	1.38	VW600	600	1.38
VW6	6	1.38	VW750	750	1.38
VW8	8	1.38	VW1K	1000	1.38
VW10	10	1.38	VW1P5K	1500	1.44
VW15	15	1.38	VW2K	2000	1.44
VW20	20	1.38	VW2P5K	2500	1.44
VW25	25	1.38	VW3K	3000	1.44
VW30	30	1.38	VW4K	4000	1.44
VW40	40	1.38	VW5K	5000	1.44
VW50	50	1.38	VW7P5K	7500	1.50
VW60	60	1.38	VW10K	10000	1.50
VW75	75	1.38	VW15K	15000	1.56
VW100	100	1.38	VW20K	20000	1.56
VW200	200	1.38	VW25K	25000	1.65
VW250	250	1.38			

## 7 WATT TYPE E

Rated 7 watts at 40° C. 2 3/4" diameter. Mech. Rotation: 307°. Elec. Rotation: 295°. Resis. Tolerance: ±10%. Contact arm grounded. Bushing: 3/8"-32 x 3/8". Shaft: 1/4" dia. x 3/4" FMS with screwdriver slot. Furnished with nut.

Mallory Number	Ohms Resis.	Capacity In Amps	Net Each
E5MP	5K	.042	\$2.76
E10MP	10K	.03	2.94
E20MP	20K	.021	3.00
E25MP	25K	.019	3.09
E50MP	50K	.0135	3.15
E75MP	75K	.011	3.24
E100MP	100K	.0095	3.30
E125MP	125K	.0085	3.30
E150MP	150K	.0078	3.36

## 12 1/2 WATT TYPE MG

Rated 12 1/2 watts at 35° C. 1 1/2" diameter. Mech. Rotation: 294°. Elec. Rotation: 275°. Resis. Tolerance: ±10%. Voltage Breakdown: 900 VAC rms. Bushing: 3/8"-32 x 3/8" FMS. Shaft: 1/4" dia. x 3/4" FMS, knurled with screwdriver slot. Furn. with nut.

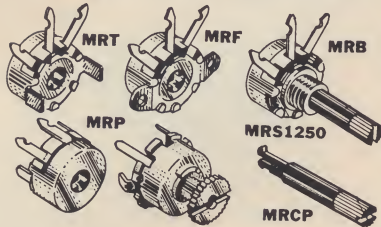
Mallory No.	Ohms Resis.	Net Each	Mallory No.	Ohms Resis.	Net Each
MG1	1	\$2.18	MG600	600	\$2.18
MG3	3	2.18	MG1000	1000	2.22
MG6	6	2.18	MG1500	1500	2.22
MG10	10	2.18	MG2000	2000	2.22
MG15	15	2.18	MG2500	2500	2.22
MG20	20	2.18	MG3000	3000	2.22
MG25	25	2.18	MG4000	4000	2.22
MG30	30	2.18	MG5000	5000	2.22
MG50	50	2.18	MG10K	10K	2.32
MG100	100	2.18	MG15K	15K	2.32
MG200	200	2.18	MG20K	20K	2.32
MG300	300	2.18	MG25K	25K	2.32
MG400	400	2.18	MG50K	50K	2.50
MG500	500	2.18	MG100K	100K	2.72

STANDARD TAPER FOR MALLORY WIRE-WOUND CONTROLS IS NORMAL  
LINEAR TAPER. OTHER TAPERS MAY BE SPECIFIED ON SPECIAL ORDER.



# Wire-wound Controls

## 3-WATT TYPE MR WIRE-WOUND CONTROLS



Only 3/4" diameter, MR controls are used for applications in AGC, convergence, hum-balance, etc. Case is fully enclosed; MR, all metal; MRC, metal mounting plate with molded nylon body and knob. Types MR and MRC directly replace older FL and PFL types as shown in cross-reference. Five mounting configurations available. Conversion from cross-slot adjustment to shaft may be made using plug-in shafts listed. **Wattage Rating at 40° C:** MR, 3 watts; MRC, 1 1/2 watts. **Rotation:** 250° mechanical; 248° electrical. **Resistance Tolerance:** MR, ±20%; MRC, ±10%. **Voltage Breakdown:** MR, 900 VAC rms; MRC has grounded contact arm.

### MR-B 3-WATT BUSHING MOUNT

Bushing 3/8"-32 x 1/4". Shaft 1/4" dia. x 1 1/4" lg. FMS knurled and slotted nylon. With nut.

Mallory No.	Res. Ω	Net Each	Mallory No.	Res. Ω	Net Each
MR10B	10	\$0.93	MR1000B	1000	\$0.93
MR50B	50	.93	MR2500B	2500	.93
MR100B	100	.93	MR5000B	5000	.93
MR250B	250	.93	MR10KB	10K	1.08
MR500B	500	.93	MR15KB	15K	1.08

### MR-T 3-WATT TAB MOUNT

Furnished with twist-tabs for mounting on PC board or chassis. Cross-slot adjustment.

Mallory No.	Res. Ω	Net Each	Mallory No.	Res. Ω	Net Each
MR10T	10	\$0.66	MR2500T	2500	\$0.70
MR50T	50	.66	MR3000T	3000	.70
MR100T	100	.66	MR4000T	4000	.70
MR250T	250	.66	MR5000T	5000	.76
MR500T	500	.66	MR8000T	8000	.76
MR800T	850	.66	MR10KT	10K	.83
MR1000T	1000	.66	MR15KT	15K	.93

### MR-F 3-WATT FLANGE MOUNT

Mounting ears with .130" dia. holes on 1" center. Cross-slot adjustment, front and rear.

Mallory No.	Res. Ω	Net Each	Mallory No.	Res. Ω	Net Each
MR6F	6	\$0.66	MR600F	600	\$0.66
MR15F	15	.66	MR750F	750	.66
MR40F	40	.66	MR1000F	1000	.66
MR75F	75	.66	MR1500F	1500	.66
MR100F	100	.66	MR2000F	2000	.66
MR150F	150	.66	MR2500F	2500	.66
MR200F	200	.66	MR3000F	3000	.66
MR250F	250	.66	MR4000F	4000	.66
MR500F	500	.66	MR5000F	5000	.66

### MR-P 3-WATT PC MOUNT

Printed circuit board mounting with cross-slot adjustment, front and rear.

Mallory No.	Res. Ω	Net Each	Mallory No.	Res. Ω	Net Each
MR15P	15	\$0.66	MR1000P	1000	\$0.66
MR100P	100	.66	MR1500P	1500	.66
MR175P	175	.66	MR3000P	3000	.66
MR260SP	260†	.66	MR4000P	4000	.66
MR600P	600	.66	MR5000P	5000	.66

\*Stop at 60 ohms. †Stop at 100 ohms.

### MRC-P 1 1/2-WATT PC MOUNT

Convergence controls with printed circuit board mounting and permanent knob.

Mallory No.	Res. Ω	Net Each	Mallory No.	Res. Ω	Net Each
MRC10P	10	\$0.66	MRC100P	100	\$0.66
MRC30P	30	.66	MRC120P	120	.66
MRC60P	60	.66	MRC150P	150	.66

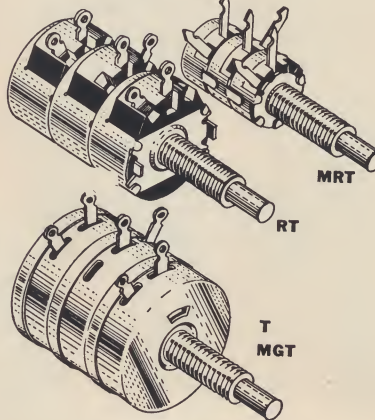
### SHAFTS FOR MR CONTROLS

Mallory No. MRS1250—1/4" dia. x 1 1/4" FMS knurled and slotted nylon. Plugs into either end of MR control. Net Ea. .12c  
Mallory No. MRS1563—1/4" dia. x 1 1/4" FMS, knurled, slotted nylon. Net Ea. .12c

**TANDEM COUPLER FOR MR CONTROLS**  
Mallory No. MRS100—Couples MRP type to MRB, MRT, MRF or MRP to make tandem control. Net Each. .3c

## AUDIO ATTENUATORS

Mallory audio attenuators are available in three wattage ratings: 10 watts, MR, R and RR; 15 watts, T, L, LL and BAL; and 50 watts, MGL and MGT. All are made to critical audio standards; come complete with mounting hardware. Three case diameters: 3/4", MR; 1 1/4", R; and 1 1/2" for T, L, LL, BAL, MGL and MGT.



### T PAD ATTENUATORS

Present constant impedance to both source (amplifier) and output (speaker).

#### T PAD STOCK VALUES

Imped., Ohms	Mallory No. for Audio Rating of	10 W	10 W	15 W	50 W
2	MRT4	RT4	T2	T4	MGT4
4			T6		
6	MRT8	RT8	T8		MGT8
8	MRT16	RT16	T15		MGT16
15-16	MRT50	RT50	T50		MGT50
50			T100		
100			T200		
200			T250		
250			T500		
500			T600		
600			T1000		
1000			T2000		
2000			T3000		
3000					

#### T PAD NET PRICES

With nuts, washers, knob and dial.

Type	Bushing	Shaft (FMS)	Net Each
MRT	3/8"-32 x 1"	1/4" x 1 1/2"	\$3.33
RT	3/8"-32 x 1"	1/4" x 1 1/2"	3.33
T	3/8"-32 x 3/8"	1/4" x 2"	3.54
MGT	3/8"-32 x 1"	1/4" x 1 1/2"	6.48

### STEREO LEVEL CONTROL

Level control for low-priced 4- and 8-ohm stereo speakers. Rated 10 watts, audio. Supplied with nuts, washers, dial and knob. Bushing 3/8"-32 x 1". Shaft 1/4" dia. x 1 1/4" lg.  
Mallory No. RR50—Net Each. . \$2.10

### L PAD ATTENUATORS

Present constant impedance to source (amplifier), used in audio circuits where output (speaker) impedance is not critical.

#### L PAD STOCK VALUES

Imped., Ohms	Mallory No. for Audio Rating of	10 W	10 W	15 W	50 W
2				L2	
4	MRL4	RL4		L4	MGL4
6				L6	
8				L8	
8	MRL8	RL8		L8A	MGL8
15				L15	
16	MRL16	RL16		L16A	MGL16
50	MRL50	RL50		L50	MGL50
100				L100	
200				L200	
250				L250	
500				L500	
600				L600	
1000				L1000	
2000				L2000	
3000				L3000	
4000				L4000	

#### L PAD NET PRICES

With nut, washer, knob and dial.

Type	Bushing	Shaft (FMS)	Net Each
MRL	3/8"-32 x 1"	1/4" x 1 1/2"	\$2.52
RL	3/8"-32 x 1"	1/4" x 1 1/2"	2.52
L	3/8"-32 x 3/8"	1/4" x 2"	2.73
L-A	3/8"-32 x 1"	1/4" x 1 1/2"	2.85
MGL	3/8"-32 x 1"	1/4" x 1 1/2"	4.26

### LL PAD ATTENUATORS

Two L pads in tandem for stereo level control. Bushing 3/8"-32 x 1". Shaft 1/4" dia. x 1 1/4" lg. With nuts, washers and deluxe "Level" dial supplied.

Mallory No.	Imped., Ohms	Audio Watts	Net Each
MRL4	4	10	\$5.40
MRL8	8	10	5.40
MRL16	16	10	5.40
MRL50	50	10	5.40
LL8	8	15	5.70
LL16	16	15	5.70
LL50	50	15	5.70
MGL4	4	50	8.10
MGL16	16	50	8.10

### STEREO BALANCE ATTENUATOR

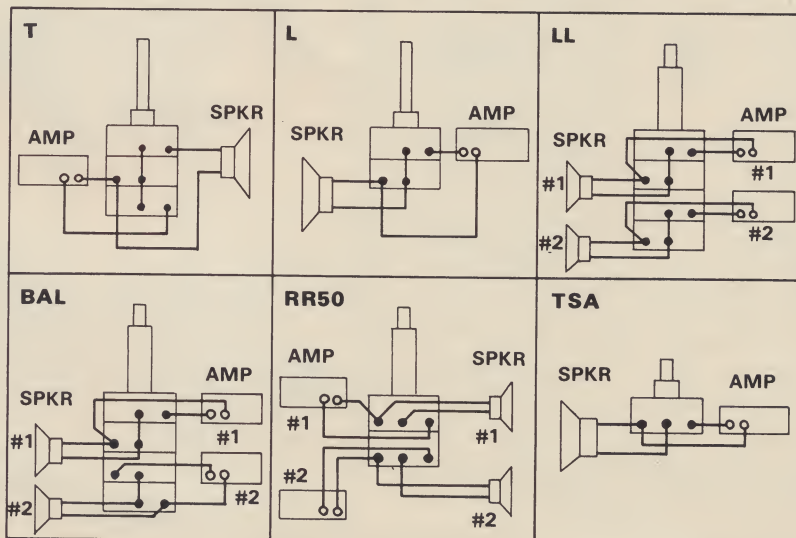
Back-to-back tandem L pads for true stereo balancing. Rated 15 watts, audio. Comes with nuts, washers, knob and "Balance" dial. Bushing 3/8"-32 x 1". Shaft 1/4" dia. x 1 1/4" lg.

Mallory No. BAL8 (8 ohms) or BAL16 (16 ohms)—Net Each. . . . . \$5.70

### THEATRE SPEAKER CONTROLS

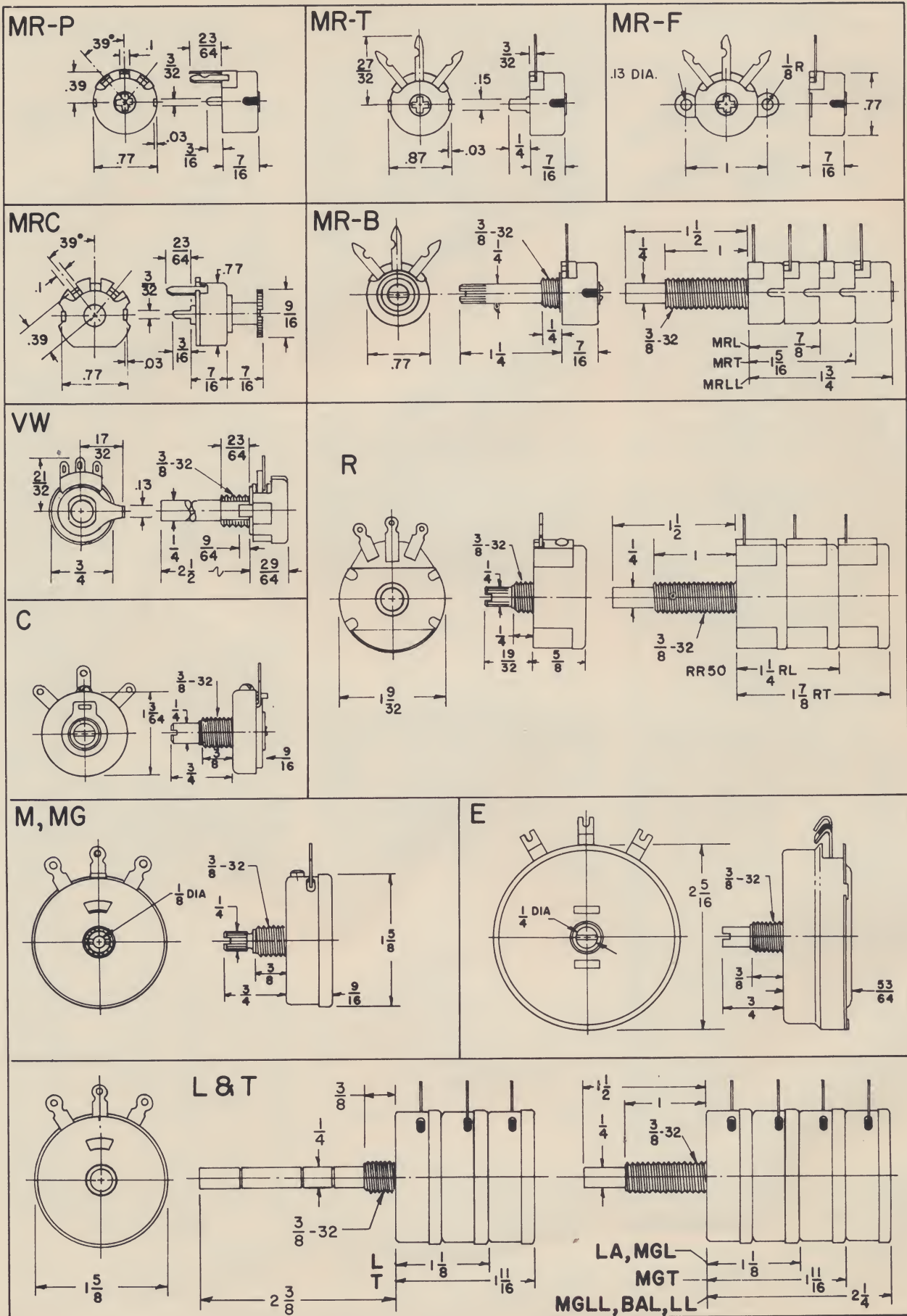
Engineered for outdoor movie speakers. Rated 8 watts, audio. Bushing 3/8"-32 x 3/8". Shaft 1/4" dia. x 3/4" lg. With nut.

Mallory No.	Description	Net Each
TSA6	6-ohm pot	\$1.14
TSA10	4-ohm L pad	1.35
TSA35	35-ohm pot	1.35



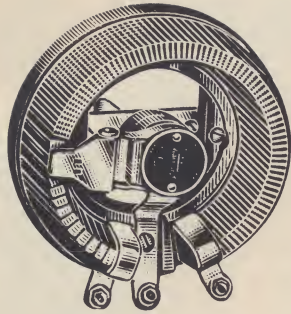


# Wire-wound Control Data





# Power Rheostats and Potentiometers



Mallory power rheostats (Type K) utilize vitreous enamel construction for maximum environmental protection. All current-carrying parts are electrically insulated by dimensionally stable ceramic. Type K rheostats have been tested to 5,000 volts, without breakdown between electrical and mechanical components. U/L voltage ratings are as follows: 25K, 50K, 75K, 100K and 150K—300 volts; 225K, 300K and 500K—600 volts.

The contact mechanism features the patented spring-hinge arm. This spring loaded assembly ensures constant and correct pressure on the rheostat windings. An added advantage is that the high-purity graphite block may be removed easily for cleaning, or, if necessary, for replacement.

Type K rheostats are furnished in a standard linear taper and with all mounting hardware, dial plate and knob. Special two- and three-section tapers are available on special order. All values shown are for continuous operation in free air.

## TYPE 25K 25 WATTS

1 1/8" O.D. 295° angle of rotation.

Mallory No.	Ohms	Max. Amps	Steps	Net Each
25K1P	1	5.000	28	\$4.40
25K2P	2	3.540	28	3.90
25K3P	3	2.880	53	3.90
25K6P	6	2.040	51	3.90
25K8P	8	1.770	56	3.90
25K10P	10	1.580	54	3.90
25K15P	15	1.290	88	3.90
25K25P	25	1.000	117	3.90
25K35P	35	.845	129	3.90
25K50P	50	.707	149	3.90
25K75P	75	.575	174	3.90
25K100P	100	.500	184	3.90
25K125P	125	.447	187	3.90
25K175P	175	.378	178	3.90
25K250P	250	.316	200	3.90
25K350P	350	.267	227	3.90
25K500P	500	.222	256	3.90
25K750P	750	.182	303	3.90
25K1000P	1000	.155	318	4.40
25K1500P	1500	.129	310	4.40
25K2500P	2500	.100	405	4.40
25K3500P	3500	.084	432	4.66
25K5000P	5000	.070	471	4.66

## TYPE 100K 100 WATTS

3 3/8" O.D. 300° angle of rotation.

Mallory No.	Ohms	Max. Amps	Steps	Net Each
100K.5P	.5	14.20	30	\$7.32
100K1P	1	10.00	40	7.32
100K2P	2	7.07	42	7.32
100K3P	3	5.77	56	7.32
100K5P	5	4.47	59	7.32
100K7.5P	7.5	3.65	96	6.86
100K10P	10	3.16	101	6.86
100K16P	16	2.50	128	6.86
100K25P	25	2.00	160	6.86
100K50P	50	1.41	200	6.86
100K75P	75	1.15	240	6.86
100K100P	100	1.00	250	6.86
100K200P	200	.71	315	6.86
100K300P	300	.58	302	6.86
100K400P	400	.50	316	6.86
100K500P	500	.45	342	6.86
100K750P	750	.37	406	6.86
100K1000P	1000	.32	435	6.86
100K1500P	1500	.26	520	6.86
100K2000P	2000	.22	544	7.32
100K2500P	2500	.20	535	7.32
100K5000P	5000	.14	692	7.32
100K7500P	7500	.12	820	8.30
100K10000P	10000	.10	840	8.30

## TYPE 300K 300 WATTS

6 1/4" O.D. 315° angle of rotation.

Mallory No.	Ohms	Max. Amps	Steps	Net Each
300K1P	1	17.30	48	\$14.53
300K2P	2	12.25	60	14.53
300K3P	3	10.00	64	14.53
300K4P	4	8.66	80	14.53
300K5P	5	7.75	80	14.53
300K7.5P	7.5	6.32	100	14.53
300K10P	10	5.48	139	14.53
300K15P	15	4.47	128	14.53
300K25P	25	3.46	182	14.53
300K50P	50	2.45	228	14.53
300K75P	75	2.00	271	14.53
300K100P	100	1.73	287	14.53
300K150P	150	1.41	338	14.53
300K200P	200	1.22	361	14.53
300K300P	300	1.00	427	14.53
300K400P	400	.87	460	14.53
300K700P	700	.66	555	14.53
300K900P	900	.58	564	14.53
300K1200P	1200	.50	605	14.53
300K1500P	1500	.45	755	14.53
300K1750P	1750	.41	691	14.53
300K2500P	2500	.35	785	14.53

## TYPE 50K 50 WATTS

2 1/8" O.D. 300° angle of rotation.

Mallory No.	Ohms	Max. Amps	Steps	Net Each
50K.5P	.5	10.00	25	\$4.89
50K1P	1	7.07	37	4.89
50K2P	2	5.00	42	4.89
50K4P	4	3.54	66	4.40
50K6P	6	2.89	79	4.40
50K8P	8	2.50	84	4.40
50K12P	12	2.04	100	4.40
50K16P	16	1.76	106	4.49
50K22P	22	1.50	145	4.40
50K35P	35	1.19	145	4.40
50K50P	50	1.00	163	4.40
50K80P	80	.79	210	4.40
50K125P	125	.63	204	4.40
50K150P	150	.58	244	4.40
50K225P	225	.47	298	4.40
50K300P	300	.41	268	4.40
50K500P	500	.32	205	4.40
50K800P	800	.25	363	4.66
50K1000P	1000	.22	354	4.66
50K1600P	1600	.176	449	4.66
50K2500P	2500	.14	455	4.66
50K3500P	3500	.12	500	4.89
50K5000P	5000	.10	550	4.89
50K8000P	8000	.08	690	4.89
50K10000P	10000	.07	870	4.89

## TYPE 150K 150 WATTS

4 1/8" O.D. 305° angle of rotation.

Mallory No.	Ohms	Max. Amps	Steps	Net Each
150K.5P	.5	17.30	31	\$9.28
150K1P	1	12.30	38	9.28
150K2P	2	8.66	51	9.28
150K3P	3	7.07	73	9.28
150K5P	5	5.48	77	9.28
150K7.5P	7.5	4.47	70	9.28
150K10P	10	3.87	145	8.80
150K15P	15	3.16	138	8.80
150K25P	25	2.45	142	8.80
150K35P	35	2.07	198	8.80
150K50P	50	1.73	182	8.80
150K75P	75	1.41	218	8.80
150K100P	100	1.22	229	8.80
150K150P	150	1.00	276	8.80
150K200P	200	.87	289	8.80
150K250P	250	.77	360	8.80
150K350P	350	.66	350	8.80
150K500P	500	.55	400	8.80
150K750P	750	.45	460	9.28
150K1250P	1250	.35	490	9.28
150K1800P	1800	.290	555	9.80
150K2250P	2250	.26	547	9.80
150K3000P	3000	.22	729	9.80
150K4500P	4500	.18	689	10.27
150K7500P	7500	.14	930	10.76
150K10000P	10000	.12	980	11.73

## TYPE 500K 500 WATTS

8" O.D. 325° angle of rotation.

Mallory No.	Ohms	Max. Amps	Steps	Net Each
500K1P	1	22.40	73	\$20.99
500K2P	2	15.80	68	20.99
500K3P	3	12.90	91	20.99
500K4P	4	11.20	96	20.99
500K5P	5	10.00	127	20.99
500K7.5P	7.5	8.16	134	20.99
500K10P	10	7.07	169	20.99
500K15P	15	5.79	180	20.99
500K25P	25	4.47	230	20.99
500K50P	50	3.16	285	20.99
500K75P	75	2.58	342	20.99
500K100P	100	2.24	362	20.99
500K150P	150	1.82	430	20.99
500K200P	200	1.58	452	20.99
500K250P	250	1.41	563	20.99
500K350P	350	1.20	630	20.99
500K500P	500	1.00	708	20.99
500K750P	750	.82	670	20.99
500K1MP	1000	.71	705	20.99
500K1500P	1500	.58	862	20.99
500K2500P	2500	.45	975	20.99

## TYPE 75K 75 WATTS

2 1/8" O.D. 300° angle of rotation.

Mallory No.	Ohms	Max. Amps	Steps	Net Each
75K.5P	.5	12.20	26	\$6.61
75K1P	1	8.66	35	6.61
75K2P	2	6.12	42	6.61
75K4P	4	4.34	64	6.61
75K6P	6	3.54	77	6.09
75K8P	8	3.06	81	6.09
75K12P	12	2.50	97	6.09
75K25P	25	1.73	126	6.09
75K50P	50	1.22	159	6.09
75K75P	75	1.00	188	6.09
75K100P	100	.87	200	6.09
75K200P	200	.61	249	6.09
75K250P	250	.55	252	6.09
75K350P	350	.46	277	6.09
75K500P	500	.39	312	6.09
75K750P	750	.32	330	6.61
75K1MP	1000	.27	365	6.61
75K1500P	1500	.22	407	6.61
75K2500P	2500	.17	428	6.61
75K5MP	5000	.12	550	7.08
75K8MP	8000	.10	670	7.60
75K10MP	10000	.09	660	7.60

## TYPE 225K 225 WATTS

5" O.D. 310° angle of rotation.

Mallory No.	Ohms	Max. Amps	Steps	Net Each
225K1P	1	15.00	52	\$13.40
225K2P	2	10.60	69	13.40
225K3P	3	8.66	73	13.40
225K4P	4	7.50	91	13.40
225K5P	5	6.71	91	13.40
225K7.5P	7.5	5.48	96	13.40
225K10P	10	4.74	101	13.40
225K15P	15	3.87	147	13.40
225K25P	25	3.00	192	13.40
225K50P	50	2.12	242	13.40
225K75P	75	1.73	290	13.40
225K100P	100	1.50	304	13.40
225K150P	150	1.22	364	13.40
225K200P	200	1.06	382	13.40
225K350P	350	.80	421	13.40
225K500P	500	.67	475	13.40
225K750P	750	.55	577	13.40
225K1MP	1000	.47	605	13.40
225K1500P	1500	.39	715	13.40
225K2500P	2500	.30	660	13.40

## TYPE "K" RHEOSTAT ACCESSORIES

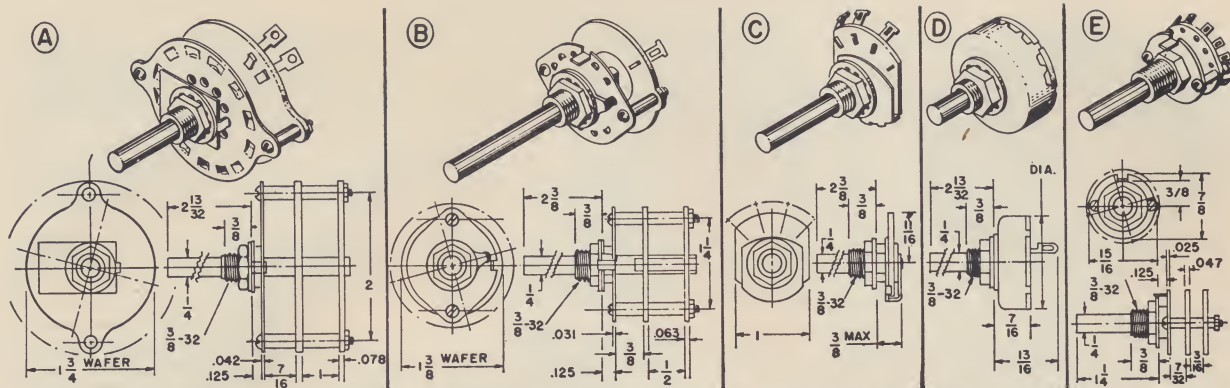
(Not Illustrated)

Mallory No.	Description	Dia.	Net Each
365-1	Bar knob	2 1/4"	\$0.21
366-1	Bar knob	1 1/4"	.15
367-1	Knurled rd. knob	1 1/2"	.21
368-1	Knurled rd. knob	1 1/2"	.20
364	368 w/pointer	1 1/2"	.09
363†	Handwheel*	3 1/4"	2.49
363-1†	Handwheel**	3 1/4"	2.03
362	Handwheel*	3 1/4"	2.49
362-1	Handwheel**	3 1/4"	2.03
361	Finger grip*	1 1/8"	.70
361-1	Finger grip**	1 1/8"	.55
360	Finger grip*	1 1/8"	.99
360-1	Finger grip**	1 1/8"	.89
359†	Finger grip*	2 3/8"	.64
359-1†	Finger grip**	2 3/8"	.50
369	Dial plate, 0-100	.....	.21
370	Dial plate, 0-100	.....	.85
391	Dial plate, vol.	.....	.21

\*With pointer. \*\*Without pointer. †3/8" hole dia., others, 1/4".



# Switches



Mallory switches are available in three general styles: Rotary, lever-action and pushbutton. Most styles are supplied in both shorting and non-shorting contacts. Shorting switches have contacts with "make" before "breaking" and are widely used in audio circuits. Contacts in non-shorting switches "break" before "making". These switches may be chosen with phenolic, ceramic or glass-epoxy wafer materials. Ceramic is usually selected for high voltage circuits as in switching RF equipment. All switches are supplied with normal mounting hardware. Dial plates are not included (except for Type 13124L).

## PHENOLIC WAFER ROTARY SWITCHES

Mallory phenolic wafer rotary switches come in several sizes and contact arrangements. Supplied with nut, washer and 366-1 black knob. Phenolic is MIL grade Richardson T725.

### STANDARD 1 1/2" DIAMETER (FIG. A)

Rated 1 amp at 300 VDC; 4 amps, 50 VDC; 2 amps, 300 VAC rms; 12 amps, 6 VAC rms. Maximum non-breaking resistive load, 12 amps. Breakdown, 1000 VAC/DC. Contact resistance less than 0.01 ohm. Supplied with adjustment pin and stop plate.

Mallory Number		Index	Poles per Section	No. of Sections	Max. Positions	Net Each
Shorting	Non-Shorting					
1211L	1311L	30°	1	1	11	\$2.10
1215L	1315L	30°	2	1	5*	2.10
1213L	1313L	30°	3	1	3*	2.10
1212L	1312L	30°	4	1	2*	2.10
1221L	1321L	30°	1	2	11	2.58
1225L	1325L	30°	2	2	5*	2.58
1223L	1323L	30°	3	2	3*	2.58
1222L	1322L	30°	4	2	2*	2.58
1231L	1331L	30°	1	3	11	3.24
1235L	1335L	30°	2	3	5*	3.24
1233L	1333L	30°	3	3	3*	3.24
1232L	1332L	30°	4	3	2*	3.24
1241L	1341L	30°	1	4	11	3.81
1245L	1345L	30°	2	4	5*	3.81
1243L	1343L	30°	3	4	3*	3.81
1242L	1342L	30°	4	4	2*	3.81
1251L	1351L	30°	1	5	11	4.11
1256L	1356L	30°	2	5	6*	4.53
1261L	1361L	30°	1	6	11	4.83
1266L	1366L	30°	2	6	6*	5.52

\*Plus "off" position.

### 24-POSITION TAP SWITCH (FIG. A)

Includes Mallory No. 394 dial.

.....	13124L	15°	1	1	24	\$2.76
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### 5-POSITION HAMSWITCH® (FIG. A)

For measuring up to 5 circuits with a single switch.

.....	151L	60°	1	1	5*	\$2.70
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\*Plus "off" position.

### CIRCUIT OPENING SWITCH (FIG. A)

For meter switching or inserting resistors, capacitors, etc. Adjustable stop.

1400L	.....	30°	1	1	11	\$4.68
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### DECADE SWITCHES (FIG. A)

Use four resistors or capacitors for full decade. Type 153L for capacitors; 154L for resistors. Connect in series for multiple decades. Complete with instructions.

.....	153L	36°	Spec.	1	10	\$2.70
.....	154L	36°	Spec.	1	10	2.94

### MINIATURE 1 1/2" DIAMETER (FIG. B)

Rated 350 mA at 500 VAC rms resistive. Breakdown 1700 VAC rms, 60 Hz. Contact resistance 0.005 ohm. Supplied with adjustable stop, 366-1 knob and hex nut.

4M1111	4M2111	30°	1	1	11	\$1.80
4M1215	4M2215	30°	2	1	5	1.80
4M1313	4M2313	30°	3	1	3	1.80
4M1412	4M2412	30°	4	1	2	1.80
4M1121	4M2121	30°	1	2	11	2.58
4M1225	4M2225	30°	2	2	5	2.58
4M1323	4M2323	30°	3	2	3	2.58
4M1422	4M2422	30°	4	2	2	2.58
4M1131	4M2131	30°	1	3	11	3.24
4M1235	4M2235	30°	2	3	5	3.24
.....	4M2432	30°	4	3	2	3.24

## MINIATURE SWITCHES (CONT'D)

Mallory Number		Index	Poles per Section	No. of Sections	Max. Positions	Net Each
Shorting	Non-Shorting					
4M1141	4M2141	30°	1	4	11	\$3.81
4M1245	4M2245	30°	2	4	5	3.81
4M1151	4M2151	30°	1	5	11	4.47
4M1255	4M2255	30°	2	5	5	4.47
4M1161	4M2161	30°	1	6	11	5.04
.....	4M2265	30°	2	6	5	5.04

## MINIATURE SPECIAL PURPOSE (FIG. C)

For tone control, radio-phonograph use, etc. Suffix indicates: D, AC line switch; S, spring return; K, knurled shaft (no knob supplied).

5M1112	.....	30°	1	1	2	\$1.08
5M1113	.....	30°	1	1	3	1.08
5M1113K	.....	30°	1	1	3	.75
4M1114D	.....	30°	1	1	4	1.80
.....	42L2212S	30°	2	1	2	1.08
5M1213	.....	30°	2	1	3	1.08
.....	5M2213	30°	2	1	2	1.80
.....	4M2412S	30°	4	1	2	1.80

## STEREO SPEAKER SWITCH (FIG. C)

For switching stereo speakers. Has "Main", "Both" and "Remote" positions. Phenolic wafer 1 1/2" dia.; bushing 3/8"-32 x 1/2" lg.

RSA1213	.....	30°	2	1	3	\$1.08
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## GENERAL PURPOSE ROTARY SWITCHES (FIG. D)

Single section with formed cup enclosing contacts. Rated 0.2 amp at 300 VDC; 5 amps, 6 VDC; 0.25 amp, 300 VAC; 6 amps, 6 VAC. Maximum non-breaking resistive load, 5 amps. Breakdown 500 VAC/DC. Contact resistance 0.01 ohm or less. Comes with 366-1 knob and nut.

Mallory Number		Index	No. of Poles	Max. Positions	Base Dia., In.	Net Each
Shorting	Non-Shorting					
3115J	3215J	30°	1	5	1 1/4	\$1.02
31112J	32112J	30°	1	12	1 1/4	1.02
3122J	3222J	30°	2	2	1 1/4	1.02
3123J	3223J	30°	2	3	1 1/4	1.02
3126J	3226J	30°	2	6	1 1/4	1.02
3134J	3234J	30°	3	4	1 1/4	1.05
3142J	3242J	30°	4	2	1 1/4	1.05
3143J	3243J	30°	4	3	1 1/4	1.05
31117J	32117J	20°	1	17*	1 1/4	1.56
3129J	3229J	20°	2	9*	1 1/4	1.56
3136J	3236J	20°	3	6*	1 1/4	1.65
3163J	3263J	20°	6	3*	1 1/4	1.65

\*Furnished with adjustable stop.

## ANTENNA SWITCH

For selecting from two TV or FM antennas. Comes with all mounting hardware.

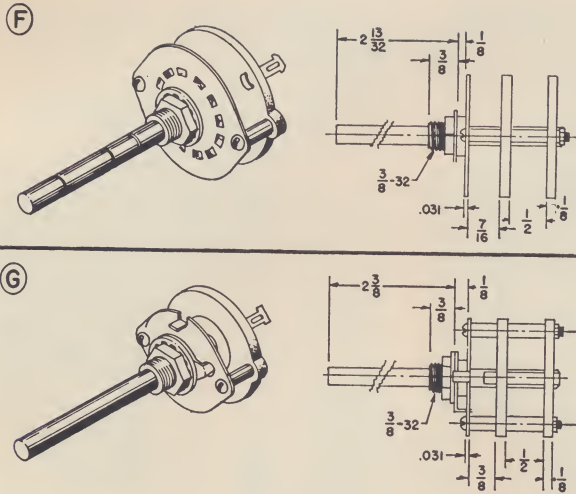
3122TV	.....	30°	2	2	1 1/4	\$1.31
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## GLASS-EPOXY WAFER ROTARY SWITCHES (FIG. E)

Subminiature size employs wafers 7/8" dia. Glass-epoxy per MIL-P-18177. Rated 150 mA at 150 V rms. Max. voltage, 225 V rms. Max. current, 2.5 amps at 6 VAC rms. (All specifications at resistive load.) Supplied with nut, washer and 366-1 knob.

Mallory Number		Index	Poles per Section	No. of Sections	Max. Positions	Net Each
Shorting	Non-Shorting					
.....	12M21111G	30°	1	1	11	\$4.52
12M1215G	12M2215G	30°	2	1	5	4.52
12M1313G	12M2313G	30°	3	1	3	4.52
.....	12M2412G	30°	4	1	2	4.52
.....	12M21211G	30°	1	2	11	5.58
.....	12M2225G	30°	2	2	5	5.58
.....	12M2323G	30°	3	2	3	5.58
.....	12M2422G	30°	4	2	2	5.58
.....	12M21311G	30°	1	3	11	6.64
12M1235G	12M2235G	30°	2	3	5	6.64
12M1333G	12M2333G	30°	3	3	3	6.64
.....	12M2432G	30°	4	3	2	6.64





## CERAMIC WAFER ROTARY SWITCHES

Mallory ceramic wafer switches are available in two wafer sizes and a variety of circuits. Generally used where high voltages are encountered or in RF circuitry. Ceramic is MIL grade Steatite with Dow-Corning 200 treatment. Switches supplied with 366-1 knob and hex nut.

### STANDARD 1 3/4" DIAMETER (FIG. F)

Rated 0.75 amp at 300 VAC; 10 amps, 6 VAC/DC. Breakdown, 1000 VAC/DC rms. Max. non-breaking resistive load, 5 amps.

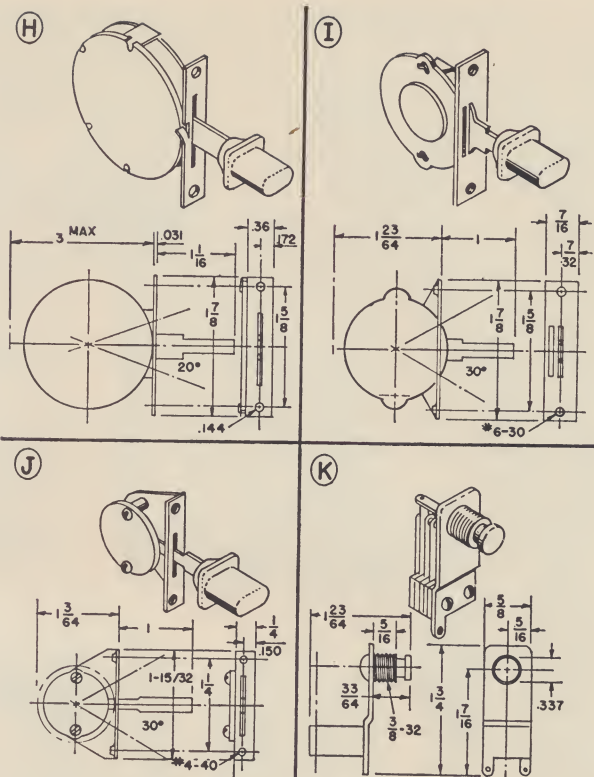
Mallory Number		Index	Poles per Section	No. of Sec- tions	Max. Posi- tions	Net Each
Shorting	Non- Shorting					
.....	172C	30°	1	1	10	\$2.37
.....	173C	30°	2	1	5*	2.37
.....	174C	30°	3	1	3*	2.37
.....	176C	30°	1	2	10	3.39
.....	177C	30°	2	2	5*	3.39
.....	178C	30°	3	2	3*	3.39
.....	180C	30°	1	3	10	4.32
.....	181C	30°	2	3	5*	4.32
.....	161C	90°	1	1	4	2.16
.....	162C	90°	1	2	4	3.06
.....	163C	90°	1	3	4	3.96
.....	164C	90°	1	4	4	4.86
.....	165C	90°	1	5	4	5.76

\*Plus "off" position.

### MINIATURE 1 1/4" DIAMETER (FIG. G)

Rated 350 mA at 500 VAC rms resistive. Breakdown, 1700 VAC rms, 60 cps. Contact resistance, 0.005 ohm. Adjustable stop.

Mailory Number			Poles per Section	No. of Sections	Max. Positions	Net Each
Shorting	Non-Shorting	Index				
4M11112C	4M21112C	30°	1	1	12	52.37
4M1216C	4M2216C	30°	2	1	6	2.37
4M1315C	4M2315C	30°	3	1	5	2.37
.....	4M2513C	30°	5	1	3	2.37
.....	4M2612C	30°	6	1	2	2.37
4M11212C	4M21212C	30°	1	2	12	3.39
4M1226C	4M2226C	30°	2	2	6	3.39
.....	4M2325C	30°	3	2	5	3.39
.....	4M2523C	30°	5	2	3	3.39
4M1622C	4M2622C	30°	6	2	2	3.39
4M11312C	4M21312C	30°	1	3	12	4.32
4M1236C	4M2236C	30°	2	3	6	4.32
.....	4M2335C	30°	3	3	5	4.32
.....	4M2533C	30°	5	3	3	4.32
.....	4M2632C	30°	6	3	2	4.32
.....	4M21412C	30°	1	4	12	5.19
.....	4M2246C	30°	2	4	6	5.19
4M1345C	.....	30°	3	4	5	5.19
4M11512C	4M21512C	30°	1	5	12	6.18
.....	4M2256C	30°	2	5	6	6.18
4M11612C	4M21612C	30°	1	6	12	7.20
.....	4M2266C	30°	2	6	6	7.20
.....	4M2116H	60°	1	1	6	2.16
.....	4M2126H	60°	1	2	6	3.06
.....	4M2136H	60°	1	3	6	3.96
.....	4M2146H	60°	1	4	6	4.86
.....	4M2114N	90°	1	1	4	2.16
.....	4M2124N	90°	1	2	4	3.06
.....	4M2134N	90°	1	3	4	3.96



## LEVER ACTION SWITCHES

Mallory lever action switches utilize MIL grade phenolic or glass-epoxy for wafer materials. Three wafer sizes available with a variety of circuits and actions. Supplied with mounting screws and knob.

### STANDARD 1 3/4" DIA. PHENOLIC (FIG. H 6000 SERIES)

Rated 0.2 amp at 300 VDC; 5 amps, 6 VDC; 0.25 amp, 300 VAC; 6 amps, 6 VAC. Positive action. Breakdown, 500 VAC/DC rms. Max. non-breaking resistive load, 5 amps.

Mallory Number	Non-Shorting	Index	Number of Poles	Number of Positions	Net Each
5124	5224	20°	2	4	\$1.38
6142	6242	20°	4	2	1.20
6143	6243	20°	4	3	1.20

### MINIATURE 1 1/4" DIA. PHENOLIC (FIG. I)

Rated 350 mA at 500 VAC rms resistive. Breakdown, 1700 VAC rms, 60 cps. Suffix indicates action (e.g., 6M1213S): S, spring return to center; U, spring return to one side, positive opposite; no suffix, positive action.

6M1213	6M2213	30°	2	3	\$1.20
6M1213S	6M2213S	30°	2	3	1.50
6M1213U	6M2213U	30°	2	3	1.50
6M1412S	6M2412	30°	4	2	1.20
	6M2412S	30°	4	2	1.50

### SUBMINIATURE 7/8" DIA. GLASS-EPOXY (FIG. J)

Glass epoxy wafers per MIL-P-18177. Rated 150 mA at 150 VAC rms, resistive. Max. voltage, 225 V rms. Max. current, 2.5 amps at 6 VAC rms, resistive. Suffix indicates action (e.g., 12L1213S): S, spring return to center; U, spring return one side, positive opposite; no suffix, positive action.

12L1213	12L2213	30°	2	3	\$3.12
12L1213S	12L2213S	30°	2	3	3.38
12L1413	12L2413	30°	4	3	3.63
12L1612	12L2612	30°	6	2	4.24
12L1612S	12L2612S	30°	6	2	4.47

### PUSHBUTTON SWITCHES (FIG. K)

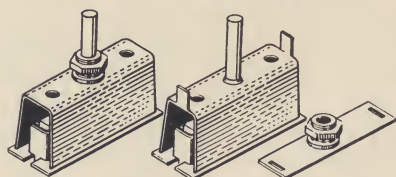
Non-locking for test panels, etc. Silver contacts on alloy springs. Rated 0.4 amp at 300 VDC and 220 VAC; 4 amps, 6 VDC. Bushing 3/8"-32 x 3/8" lg. Integral phenolic knob. With nut and washer.

Mallory No.	Circuit Arrangement	Net Each
1011	SPST—Make	\$0.69
1012	SPST—Break	.69
1013	SPDT	.78
1014	DPST—Make 2	.87
1015	DPST—Break 2	.87
1016	DPDT	1.05
1017	DP—Make 2, Break 1	1.05
1018	DPDT—Make before break	1.44



# Circuit Breakers and Switches

## CIRCUIT BREAKERS



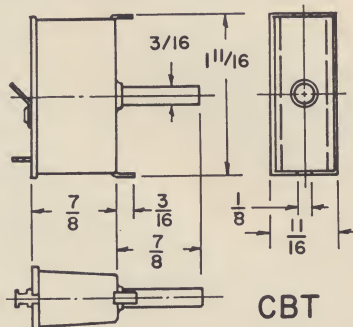
**CBB Type CBT Type CBB Adapter**

Exact replacement circuit breakers for television and industrial applications. These circuit breakers are manufactured by Mel-Rain Corp. for Mallory to the same specifications as original equipment. "Anti-cheat" reset action is non-cycling. Button must be pressed to reset. Tripping mechanism is temperature compensating for constant protection. Normal tripping time is ten seconds or less. All values above 3.1 amps have special heavy-duty contacts to withstand heavy surge currents. CBT types have twist tab mounting lugs. CBB types have  $\frac{3}{8}$ "-32 x  $\frac{1}{4}$ " bushing and hex nut. CBT types may be converted to bushing mount by using CBB adapter. Ask for free television circuit breaker cross-reference. Lists all popular TV sets.

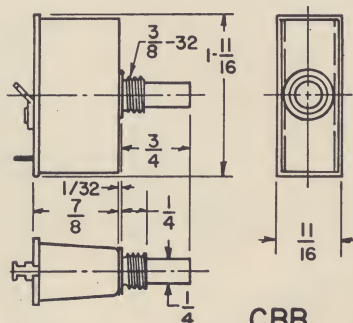
Mallory Number		Break	Oper.	Surge
Tab Mtg.	Bushing Mtg.	Curr. Amps	Curr. Amps	Curr. Amps
CBT050	CBB050	0.5	0.325	2
CBT075	CBB075	0.75	0.49	3
CBT100	CBB100	1.0	0.65	5
CBT150	CBB150	1.5	0.975	12
CBT175	CBB175	1.75	1.14	12
CBT200	CBB200	2.0	1.3	12
CBT225	CBB225	2.25	1.46	12
CBT250	CBB250	2.5	1.63	12
CBT275	CBB275	2.75	1.79	12
CBT300	CBB300	3.0	1.95	12
CBT310	CBB310	3.1	2.1	25
CBT325	CBB325	3.25	2.11	25
CBT350	CBB350	3.5	2.2	25
CBT375	CBB375	3.75	2.44	25
CBT400	CBB400	4.0	2.6	25
CBT450	CBB450	4.5	2.92	25
CBT500	CBB500	5.0	3.25	25
CBT600	CBB600	6.0	3.9	25
CBT700	CBB700	7.0	4.14	25

### NET PRICES, EACH

CBT050 to CBT300—Net Each...\$0.81  
 CBT310 to CBT700—Net Each... .88  
 CBB050 to CBB300—Net Each... .95  
 CBB310 to CBB700—Net Each... 1.02  
 Mallory No. CBB Adapter Bushing  
 Adapts CBT types to bushing mounting.  
 Bushing:  $\frac{3}{8}$ "-32 x  $\frac{1}{4}$ " with nut. Net... 16c



**CBT**

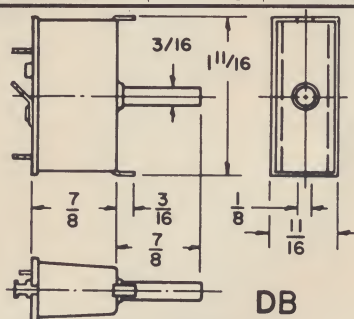


**CBB**

## • DUAL CIRCUIT BREAKERS

For use in color TV; supplies protection for B+ circuits and horizontal output circuit. Excessive current in either circuit will open the circuit breaker, thus removing all B+ voltage from set. Positive, dependable, exact duplicate of RCA and many others.

Mallory Number	Current, Amps				Net Each
	B+ Break	Section Horiz. Break	Hold Break	Hold	
DB130T038	1.6	1.3	0.6	0.375	\$1.42
DB900T325	1.2	.9	.48	.325	1.42
DB950T400	1.35	.95	.59	.4	1.42



**DB**

## PUSH-PULL AC SWITCH

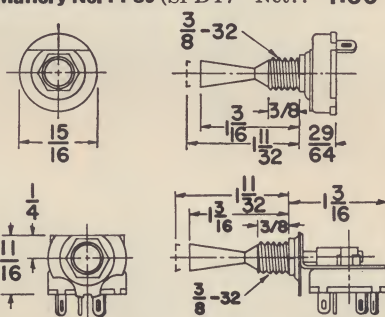


**PPS1**

**PPS2, PPS3**

Attractive push-pull AC line switches are furnished with integral aluminum alloy handle to complement the finest electronic equipment. Heavy duty, U/L Approved. PPS1, PPS2 rated 6 amps at 125 VAC. PPS3 rated 3 amps 125 VAC. Furnished with a nickel-plated knurled ring nut.

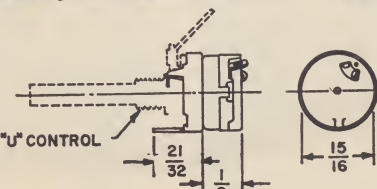
Mallory No. PPS1 (SPST)—Net...\$0.85  
 Mallory No. PPS2 (DPST)—Net... 1.00  
 Mallory No. PPS3 (SPDT)—Net... 1.00



## AC SWITCH/CIRCUIT BREAKER

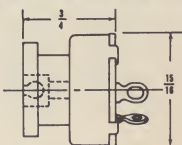
The Mallory USB switch/circuit breaker combines the functions of the standard AC line switch on a carbon control with a non-cycling circuit breaker. Carrying current is 1.6 amps and breaking current is 2.5 amps. In the event of a current overload, the circuit breaker may be reset by simply turning the control knob to the "Off" position. Fits all Mallory U and TA controls.

Mallory No. USB29—Net Each... 98c



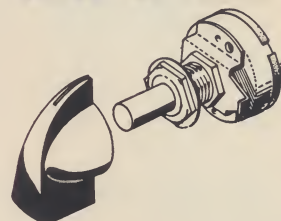
**"U" CONTROL**

## • MODEL KR8M PUSH-PULL REPLACEMENT AC SWITCH



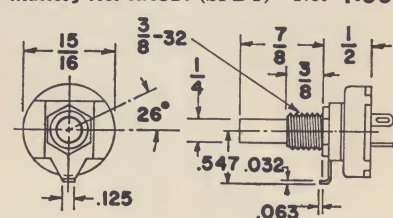
Excellent replacement for push-pull AC switch sections of original equipment, single and dual controls. Rated 6 amps, 125 volts; sufficient for color set operations. Special "O" ring construction assures long life. Easy to replace, often without removing control from set.  
 Mallory No. KR8M—Net Each... 60c

## ROTARY AC SWITCH

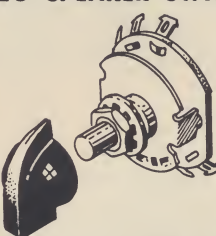


Heavy-duty AC line switch with integral  $\frac{3}{8}$ "-32 x  $\frac{3}{8}$ " bushing and  $\frac{1}{4}$ " dia. shaft. For use in equipment carrying up to 6 amps (SPST) or 3 amps (SPDT and DPST). Switch action is 26°. U/L Approved. Furnished with hex nuts, washer and 366-1 knob.

Mallory No. RAC10 (SPST)—Net \$0.85  
 Mallory No. RAC12 (DPST)—Net 1.00  
 Mallory No. RAC14 (SPDT)—Net 1.00

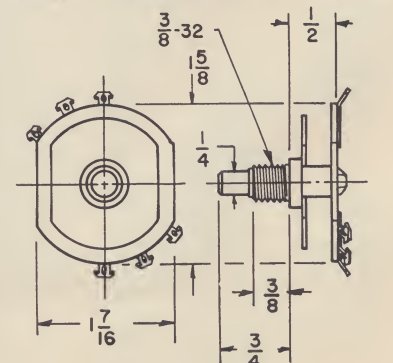


## STEREO SPEAKER SWITCH



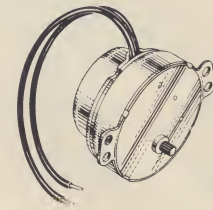
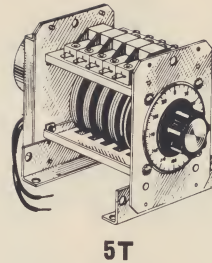
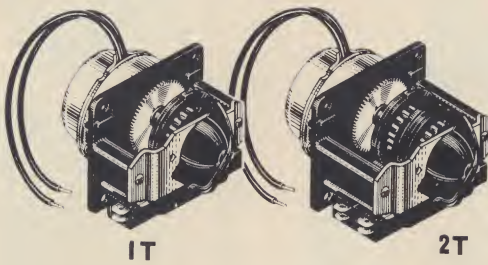
The RSA1213 stereo speaker switch is designed to allow stereo speakers to be switched from "Main" to "Remote" or "Both". Furnished with heavy-duty silver contacts for long trouble-free operation. Supplied with gold-color dial, knob, washer, nut and complete instructions.

Mallory No. RSA1213—Net Ea... \$1.08





# Industrial Sequence Timers



**MOTOR**

Mallory Industrial Sequence Timers are heavy duty types designed for industrial process control, laboratory testing, prototype timers, experimental work, etc. Time period is controlled by synchronous motors rated 117 VAC and available in 23 values ranging from ten seconds to 24 hours.

Time cycles are easily changed in increments of 2° for Models 5T, 10T and 15T; 3° for 1T, 1TA, 2T and 2TA. The actual time change may be accomplished without tools; however, a tool is provided which makes changes more precise. Once set, the time cycle repeats precisely and indefinitely.

The basic cycle mode is a repeating type. It is quite simple, however, to wire the timers to allow single-cycle operation. In this case, the start of the cycle is controllable either electrically or mechanically by means of the knob.

Time cycles are controlled by precision molded glass-nylon cams which actuate the SPDT switches. The switches are rated 15 amps at 125 VAC and are both U/L and CSA Approved. Switches snap into precision holes in the timer frames, and are easily replaced even though normally rated at more than 1 million cycles.

Drive motors attach to basic frames by means of a locating hole and two screws. The motors may be interchanged in seconds to provide a variety of sequence times.

Five basic frames are available and each is supplied with switches in position and pre-tested for accuracy. Mounting for Models 5T, 10T and 15T may be by the front panel or integral

feet; 1T and 2T are designed for thru-the-panel mounting, but can be mounted on a flat surface using special bracket No. MTB1.

All models are available as complete assemblies or as separate units (basic frames and motors). In either case, a complete set of instructions and timing charts are supplied. The timing charts convert rotational degrees into the time of the drive motor. Thus, a change of 2° in the cam of a timer equipped with a one-minute motor is equal to a time change of 1/2 second. In the 24-hour model, this 2° change equals a mere 8 minutes. A printed dial divided into 2° increments is also supplied. This dial is pressure-sensitive so that it may be applied to any clean, dry surface. A knob with a hairline marker is supplied with Models 5T, 10T and 15T. Models 1T, 1TA, 2T and 2TA come with 366-1 knob.

Switches on all types are equipped with guarded 3/16" quick-disconnect terminals. Brass female quick-disconnect terminals are also supplied for ease in wiring.

All timers are furnished with environmental protective plating for maximum life. No lubrication is required between cam and switch. As a result, operating life is exceptionally trouble-free.

Drive motors are supplied with 7" insulated wires with wire ends pre-stripped. When motors are ordered as individual units, each is supplied with the appropriate timing chart.

All models shown are equipped with a non-reversing clutch and rotation is restricted to a clockwise motion when viewed from the front (knob) face. This clutch prevents accidentally reversing the sequence when timers are used in single-cycle applications.

## COMPLETE ASSEMBLIES

Timers are available either as complete assemblies or separate units. When ordered as complete assemblies, motors are attached to the frames and units packed in a carton with knob, dial, ter-

minals, instructions, timing chart and adjusting tool. Other motors (listed below) may be ordered to change time cycle. Motors are attached to frames by two screws.

Cycle Time Hrs.: Min.: Sec.	Mallory No. 1-Circuit	Mallory No. 2-Circuit	Mallory No. 5-Circuit	Mallory No. 10-Circuit	Mallory No. 15-Circuit
: 10	• 1TAM10S	• 2TAM15S			
: 15	• 1TAM15S	• 2TAM20S			
: 20	• 1TAM20S	• 2TAM30S			
: 30	• 1TAM30S				
: 01	1TM1M	2TM1M	5TM1M	10TM1M	
: 02	1TM2M	2TM2M	5TM2M	10TM2M	
: 03	1TM3M	2TM3M	5TM3M	10TM3M	15TM3M
: 04	1TM4M	2TM4M	5TM4M	10TM4M	15TM4M
: 06	1TM6M	2TM6M	5TM6M	10TM6M	15TM6M
: 10	• 1TAM10M	• 2TAM10M			
: 12	1TM12M	2TM12M	5TM12M	10TM12M	15TM12M
: 20	• 1TAM20M	• 2TAM20M			
: 24	1TM24M	2TM24M	5TM24M	10TM24M	15TM24M
: 30	1TM30M	2TM30M	5TM30M	10TM30M	15TM30M
: 45	1TM45M	2TM45M	5TM45M	10TM45M	15TM45M
1 : 00	1TM60M	2TM60M	5TM60M	10TM60M	15TM60M
2 : 00	1TM120M	2TM120M	5TM120M	10TM120M	15TM120M
3 : 00	1TM180M	2TM180M	5TM180M	10TM180M	15TM180M
4 : 00	1TM240M	2TM240M	5TM240M	10TM240M	15TM240M
6 : 00	1TM360M	2TM360M	5TM360M	10TM360M	15TM360M
8 : 00	1TM480M	2TM480M	5TM480M	10TM480M	15TM480M
12 : 00	1TM720M	2TM720M	5TM720M	10TM720M	15TM720M
24 : 00	1TM1440M	2TM1440M	5TM1440M	10TM1440M	15TM1440M
<b>Net Each</b>	<b>\$12.85</b>	<b>\$13.55</b>	<b>\$41.80</b>	<b>\$57.20</b>	<b>\$73.20</b>

## DRIVE MOTORS

Synchronous drive motors are rated at 117 VAC operation. Furnished with 7" insulated, pre-stripped leads. Packaged one per carton with timing chart and mounting screws.

Any Model—Net Each.....\$7.70

Mallory Number	Time Min.:Sec.	Use With Frame No.	Mallory Number	Time Hrs.:Min.	Use With Frame No.
• M10S	:10	1TA only	M24M	:24	1T thru 15T
• M15S	:15	1TA or 2TA	M30M	:30	1T thru 15T
• M20S	:20	1TA or 2TA	M45M	:45	1T thru 15T
• M30S	:30	1TA or 2TA	M60M	1:00	1T thru 15T
• M1M	01:00	1T thru 15T	M120M	2:00	1T thru 15T
• M2M	02:00	1T thru 15T	M180M	3:00	1T thru 15T
• M3M	03:00	1T thru 15T	M240M	4:00	1T thru 15T
• M4M	04:00	1T thru 15T	M360M	6:00	1T thru 15T
• M6M	06:00	1T thru 15T	M480M	8:00	1T thru 15T
• M10M	10:00	1TA or 2TA	M720M	12:00	1T thru 15T
• M12M	12:00	1T thru 15T	M1440M	24:00	1T thru 15T
• M20M	20:00	1TA or 2TA			

## BASIC FRAMES

Packaged one per carton with instructions, knob, dial, adjusting tool and quick-disconnect terminals. Ready to use.

Mallory No.	Description	Net Each
• 1T	1 Circuit (SPDT)	\$ 5.15
• 1TA	1 Circuit (SPDT)	5.15
• 2T	2 Circuits (SPDT)	5.85
• 2TA	2 Circuits (SPDT)	5.85
• 5T	5 Circuits (SPDT)	33.10
• 10T	10 Circuits (SPDT)	49.00
• 15T	15 Circuits (SPDT)	65.00

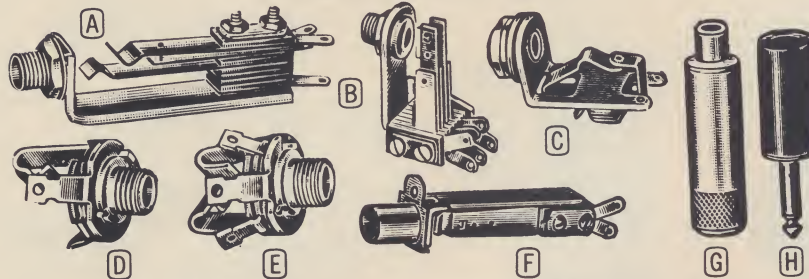
## ACCESSORIES

• MTS1	Snap Switch (SPDT)	\$0.86
• MTT1	Adjusting Tool for 5T, 10T and 15T	.25
• MTT2	Adjusting Tool for 1T, 1TA, 2T and 2TA	.25
• MTB1	Mounting Bkt. for 1T, 1TA, 2T and 2TA	1.00
• T257	Bag of 15 Brass Terminals	.25



# Jacks, Plugs, Control-Switch Hardware

## JACKS AND PLUGS



### PHONE JACKS

Four configurations meet a wide range of applications. Circuit arrangements shown in chart. Supplied with nut and washer. Bushing  $\frac{3}{16}$ "- $\frac{3}{32}$ " x  $\frac{3}{16}$ ". Nickel-plated alloy springs, silver contacts, cadmium-plated frames.

Long Fr. (Fig. A)		Junior (Fig. B)		Infant and Midget (Fig. C)		Schem.
Mal. No.	Net Ea.	Mal. No.	Net Ea.	Mal. No.	Net Ea.	
1	45c	701	45c	A-1	33c	
2	57c	702	51c	A-2	48c	
2A	57c	702A	57c	A-2A	57c	
2B	57c	702B	57c			
3	60c	703	60c			
		703A	60c	A-3A	66c	
3B	60c	703B	60c			
		703C	60c			
		704	69c			
4A	75c	704A	69c			
4B	75c	704B	69c			
5	90c	705	75c			
6	1.05					

### COMPACT JACKS (FIGS. D AND E)

JJ033 and JJ034 meet all requirements of JAN-J-641.

Mallory Number	No. Cond.	Circuit Type	Net Ea.
LA1	2	Open	36c
LA2	2	Closed	42c
LA2A	3	Closed	48c
SC1A	2	Open	36c
JJ034	2	Open	39c
SCA2B	3	Open	42c
JJ033	3	Open	48c

### GROUNDING JACK

For aircraft grounds and similar applications. Mallory No. GJ-1—Net Each..... **36c**

### TELEPHONE JACKS (FIG. F)

For close strip mounting in switchboards; plain round bushing. Mounts by screw through mounting plate.

Mallory No. XP1—Open circuit type. Net Each..... **63c**  
 Mallory No. XP2B—Three circuit microphone type. Net Each..... **75c**  
 Mallory No. XP3B—Single circuit, make before break type. Net Each... **90c**

### EXTENSION JACKS (FIG. G)

Mallory No.	Circuit	Shell	Net Ea.
100	2-way	Fiber	\$1.08
100N	2-way	1-piece nickel	1.08
100A	2-way	2-piece nickel, built-in clamp	1.50

### PHONE PLUGS (FIG. H)

Mal. No.	Circuit	Shell	Net Ea.
55	.....	Adapts mlke con. to stand. jack	\$0.30
75	2-way	Phenolic tie-cord anchor, shielded	.45
75A	2-way	Nickel, 2-piece tie-cord anchor, built-in cble. clip.	1.05
75N	2-way	Nickel, tie-cord anchor, shielded	.66
76	3-way	Phenolic	.90
76A	3-way	Nickel, 2-piece, built-in cble. clip.	1.17
85	2-way	Miniature phone plug, shielded	.36
H75-76	.....	Repl. handle for 75 and 76 plugs	.25

## CONTROL AND SWITCH HARDWARE



### VOLUME CONTROL NUT WRENCH

Mal. No.	Fig.	Description	Net Ea.
178	A	For $\frac{1}{8}$ " and $\frac{3}{16}$ " hex nuts	51c

### COUPLERS, BUSHINGS

Mal. No.	Fig.	Description	Net Ea.
EC240	B	Univ. coupling and reducer	43c
EB247	C	Univ. extension bushing	13c
UB241	D	Univ. bushing and nut	12c
EB158	E	$\frac{1}{16}$ " dble. flat. bushg.	32c
EB214	E	$\frac{1}{8}$ " flatted bushing	75c

### CONTROL AND SWITCH WASHERS

Mal. No.	Description	Pkg. 10
203	Extruded fiber; $\frac{3}{4}$ " O.D., $\frac{3}{8}$ " I.D.	18c
212	Flat phenolic; $\frac{3}{4}$ " O.D., $\frac{3}{8}$ " I.D.*	10c
225	Nickel finish metal, $\frac{3}{4}$ " I.D.*	21c
226	Nickel finish metal, $\frac{1}{4}$ " I.D.*	21c
227	Cadmium plated lock washer†	9c

\* $\frac{3}{8}$ " O.D. † $\frac{1}{16}$ " O.D.,  $\frac{3}{32}$ " I.D.

### ADJUSTABLE MOUNTING BRACKETS

Mal. No.	Fig.	Description	Net Ea.
RB248	F	$1\frac{1}{4}$ " mounting centers	5c
RB249	G	$2\frac{1}{2}$ " mounting centers	5c
RB254	H	Universal	5c

### UNIVERSAL EXTENSION SHAFTS

Mal. No.	Fig.	Description	Net Ea.
RS242	I	4" long, $\frac{1}{4}$ " dia., $\frac{1}{16}$ " flat	57c
RS243	I	4" long, $\frac{1}{4}$ " dia., $\frac{3}{32}$ " flat	57c
RS244	I	4" long, $\frac{3}{16}$ " dia., $\frac{1}{16}$ " flat	57c
RS245	J	2" long, $\frac{1}{4}$ " dia., $\frac{3}{32}$ " slot	81c

### HEX NUTS

Mal. No.	Fig.	Description	Net
232	K	$\frac{1}{16}$ " hex, $\frac{3}{8}$ "-32	1c
255	L	$\frac{1}{4}$ " panel shoulder	8c
A11260-12	L	$\frac{1}{2}$ " panel shoulder	8c
A11260-2	L	$\frac{3}{4}$ " panel shoulder	8c

## DIAL PLATES

Aluminum dial plates with figures etched on solid black background.  $1\frac{1}{16}$ " dia.,  $\frac{1}{16}$ " hole, figures  $\frac{1}{4}$ " high, .020" thick.

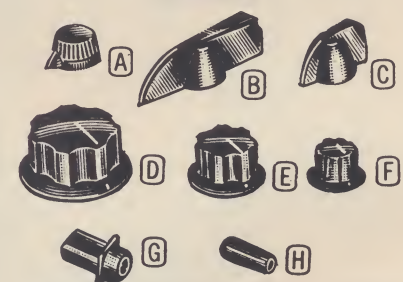


Mallory No. -20° Spacing	Mallory No. -30° Spacing	Marking	Net Each
453	372	1 to 2	12c
454	373	1 to 3	12c
455	374	1 to 4	12c
456	375	1 to 5	12c
457	376	1 to 6	12c
458	377	1 to 7	12c
459	378	1 to 8	12c
460	379	1 to 9	12c
461	380	1 to 10	12c
462	381	1 to 11	12c
463	382	1 to 12	12c
464	.....	1 to 13	12c
465	.....	1 to 14	12c
466	.....	1 to 15	12c
467	.....	1 to 16	12c
468	.....	1 to 17	12c
469	.....	1 to 18	12c
470	.....	Off 1 to 2	12c
471	383	Off 1 to 3	12c
472	384	Off 1 to 4	12c
473	385	Off 1 to 5	12c
474	386	Off 1 to 6	12c
475	387	Off 1 to 7	12c
476	388	Off 1 to 8	12c
477	389	Off 1 to 9	12c
478	390	Off 1 to 10	12c
479	.....	Off 1 to 11	12c
480	.....	Off 1 to 12	12c
481	.....	Off 1 to 13	12c
482	.....	Off 1 to 14	12c
483	.....	Off 1 to 15	12c
484	.....	Off 1 to 16	12c
485	.....	Off 1 to 17	12c
486	.....	Off 1 to 18	12c

### SPECIAL DIAL PLATES

Mal. No.	Description	Net Ea.
391	$1\frac{1}{8}$ " dia., "Increase Volume"	15c
393	$2\frac{1}{4}$ " dia., 0-10 (265°)	15c
394	$1\frac{1}{8}$ " dia., 1 to 24, 15° spacing	12c
395	$2\frac{1}{4}$ " dia., 0-10 (275°)	21c
396	$2\frac{1}{4}$ " dia., 0-10 (250°) + SW (35°)	21c
397	$2\frac{1}{4}$ " dia., 0-10 (260°)	21c
398	$2\frac{1}{4}$ " dia., 0-10 (225°) + SW (40°)	21c
399	$2\frac{1}{4}$ " dia., 0-10 (305°)	21c
487	$1\frac{1}{8}$ " dia., 1 to 5, 60° spacing	12c
488	$1\frac{1}{8}$ " dia., 1 to 4, 90° spacing	12c

## SWITCH AND CONTROL KNOBS



Mallory Number	Fig.	Description	Net Ea.
364	A	$1\frac{1}{8}$ " dia. black; pointer, $\frac{1}{4}$ " shaft	9c
365-1	B	$2\frac{1}{4}$ " blk bar; $\frac{1}{4}$ " shaft	21c
366-1	C	$1\frac{1}{4}$ " blk bar; $\frac{1}{4}$ " shaft	15c
366-R-1	C	$1\frac{1}{4}$ " red bar; $\frac{1}{4}$ " shaft	15c
367-1	D	$1\frac{1}{2}$ " black; $\frac{1}{4}$ " shaft	21c
368-1	E	1" dia. blk; $\frac{1}{4}$ " shaft	20c
1910K	F	$\frac{3}{4}$ " black; $\frac{1}{4}$ " shaft	20c
GS5149A	G	$\frac{1}{16}$ " x $\frac{1}{16}$ " for lever switches; black	10c
LK171-1	H	$\frac{1}{16}$ " dia. x $\frac{3}{4}$ " thd. for lever switch; black	10c

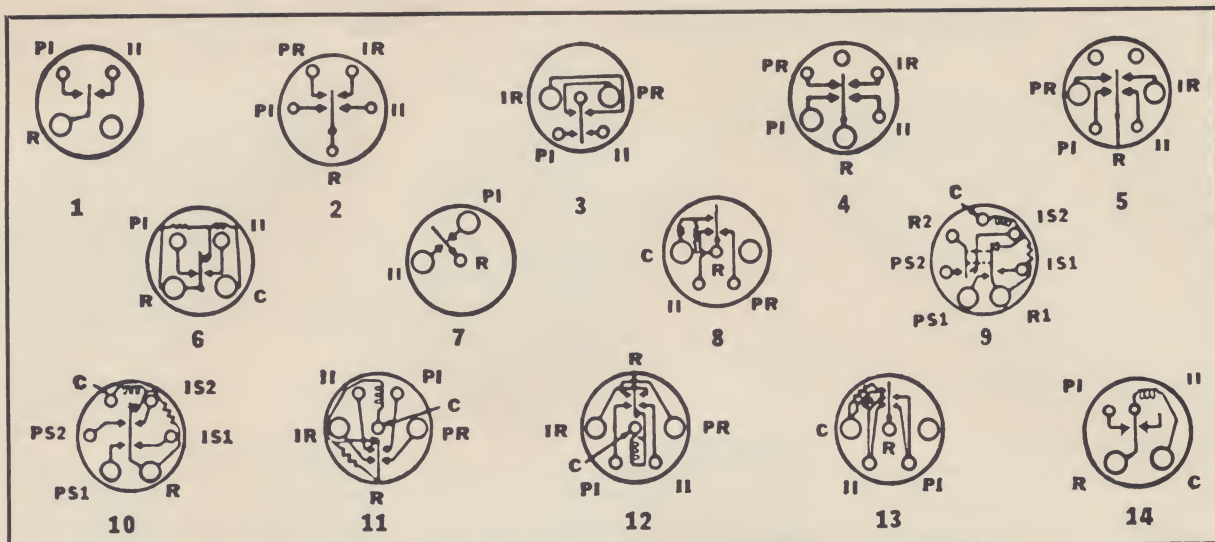
### SHAFT EXTENSIONS

Mallory No. DS-36 (Fig. M)— $\frac{1}{4}$ " dia. x  $2\frac{1}{4}$ " round for U, UT, UDT and TA controls. With one knurled and slotted, and one slotted shaft end knob adapter. Net Each..... **33c**

Mallory No. DS-37 (Fig. N)— $\frac{1}{4}$ " dia. x  $2\frac{1}{4}$ " round slotted for use with U, UT, UDT and TA controls. Net Each... **33c**



# Vibrators



**BASE DIAGRAMS:** C = Coll; II = Inertia Interrupter; IR = Inertia Rectifier; IS = Inertia Spring; PI = Pull Interrupter; PR = Pull Rectifier; PS = Pull Spring; R = Reed.

Mallory vibrators are manufactured to exceptionally close tolerances and of carefully selected materials. Perfect balance and precise operation is thus assured. Crude rubber insulation and heavy-duty drawn cans effectively dampen vibration and sound. Each Mallory vibrator is factory tested for output, starting voltage and waveform. Complete specifications are shown below. Popular auto, Citizens' Band, and communications types are repeated in the column at right for convenience.

## COMPLETE VIBRATOR SPECIFICATIONS

Mallory No.	†	Volts	Type	Base Diag.	Can Type	Size, Inches Dia. x Lgth.	Net Each
294	...	6	Int.	1	A	1 1/2 x 2 7/8	\$2.94
F294	2	32	Int.	1	A	1 1/2 x 2 7/8	4.29
G294	...	12	Int.	1	A	1 1/2 x 2 7/8	5.13
825S	2	6	Int.	1	A	1 1/2 x 2 7/8	4.14
F826S	...	32	Int.	1	A	1 1/2 x 2 7/8	4.62
1501#	...	6	Int.	6	A	1 1/2 x 2 7/8	3.81
G1501#	...	12	Int.	6	A	1 1/2 x 2 7/8	4.14
1513#	...	6/12	Int.	8	A	1 1/2 x 2 7/8	4.14
1514#	...	6	Int.	6	A	1 1/2 x 2 7/8	4.14
1532#	...	6	Int.	1	A	1 1/2 x 2 5/8	3.81
G1532#	...	12	Int.	1	A	1 1/2 x 2 5/8	4.14
1601†	...	6	Int.	1	A	1 1/2 x 2 5/8	2.82
G1601†	...	12	Int.	1	A	1 1/2 x 2 5/8	2.82
W1601	3	4	Int.	1	A	1 1/2 x 2 5/8	2.94
G1602†	...	12	Int.	7	B	1 1/2 x 2 5/8	2.82
1603S	2	6	Int.	1	A	1 1/2 x 2 15/16	3.81
G1603S	2	12	Int.	1	A	1 1/2 x 2 5/8	4.62
1604	...	6	Int.	1	A	1 5/8 x 2 3/8	2.94
G1604	...	12	Int.	1	A	1 1/4 x 2 3/8	4.62
1610	...	6	Int.	14	A	1 1/2 x 2 5/8	3.30
1701	Replace with 1701A						
1701A#	...	6/12	Int.	9	A	1 1/2 x 3	5.76
1751#	...	6	Int.	10	A	1 1/2 x 3	4.35
1752#	...	6/12	Int.	13	A	1 1/2 x 3	5.82
1801S	2	6	Syn.	3	A	1 1/2 x 2 15/16	5.13
G1801#	...	12	Syn.	3	A	1 1/2 x 2 7/8	4.11
G1801S	2	12	Syn.	3	A	1 1/2 x 2 15/16	5.97
1802	...	6	Syn.	2	A	1 1/2 x 2 7/8	4.62
G1802S	2	12	Syn.	2	A	1 1/2 x 2 15/16	5.97
G1803S#	...	12	Int.	4	A	1 1/2 x 3	4.35
1806	...	6	Syn.	12	A	1 1/2 x 2 7/8	4.62
1807#	...	6	Syn.	5	A	1 1/2 x 2 7/8	4.62
G1807#	...	12	Syn.	5	A	1 1/2 x 2 7/8	5.13
1808#	...	6	Syn.	4	A	1 1/2 x 2 7/8	4.62
G1808	...	12	Syn.	4	A	1 1/2 x 2 7/8	5.13
1813#	...	6	Syn.	3	A	1 1/2 x 2 7/8	4.62
1852#	...	6	Syn.	11	A	1 1/2 x 2 7/8	5.82

†—2: Sealed; 3: Designed for photoflash applications. Int. = Interrupter. Syn. = Synchronous. #For mobile communications and heavy duty uses. ‡Gold Label Models.

**MALLORY**  
**VIBRATOR GUIDE SUPPLEMENT**  
**AVAILABLE ON REQUEST**



## POPULAR AUTO REPLACEMENT TYPES

†“Gold Label” models.

Mallory No.	Volts	Type	Base Diag.	Can Type	Size, Inches Dia. x Lgth.	Net Each
1501	6	Int.	6	A	1 1/2 x 2 7/8	\$3.81
1601†	6	Int.	1	A	1 1/2 x 2 5/8	2.82
G1601†	12	Int.	1	A	1 1/2 x 2 5/8	2.82
W1601	4	Int.	1	A	1 1/2 x 2 5/8	2.94
G1602†	12	Int.	7	B	1 1/2 x 2 5/8	2.82

## CITIZENS' BAND RADIO VIBRATORS

Most popular Citizens' Band Radio vibrators. Designed for long, trouble-free operation.

Mallory No.	Volts	Type	Base Diag.	Can Type	Size, Inches Dia. x Lgth.	Net Each
294	6	Int.	1	A	1 1/2 x 2 7/8	\$2.94
G294	12	Int.	1	A	1 1/2 x 2 7/8	5.13
1501	6	Int.	6	A	1 1/2 x 2 7/8	3.81
G1501	12	Int.	6	A	1 1/2 x 2 7/8	4.14
1532	6	Int.	1	A	1 1/2 x 2 5/8	3.81
G1532	12	Int.	1	A	1 1/2 x 2 5/8	4.14
1601	6	Int.	1	A	1 1/2 x 2 5/8	2.82
G1601	12	Int.	1	A	1 1/2 x 2 5/8	2.82
1610	6	Int.	14	A	1 1/2 x 2 5/8	3.30

## COMMUNICATION TYPES

Designed for mobile communications and other heavy duty uses. Engineered to the finest standards and will give long, trouble-free service when used as recommended.

Mallory No.	Volts	Type	Base Diag.	Size, Inches Dia. x Lgth.	Net Each
1501	6	Int.	6	1 1/2 x 2 7/8	\$3.81
G1501	12	Int.	6	1 1/2 x 2 7/8	4.14
1513	6/12	Int.	8	1 1/2 x 2 7/8	4.14
1514	6	Int.	6	1 1/2 x 2 7/8	4.14
1701A	6/12	Int.	9	1 1/2 x 3	5.76
1752	6	Int.	10	1 1/2 x 3	4.35
G1801	6	Syn.	3	1 1/2 x 2 15/16	5.13
1807	6	Syn.	5	1 1/2 x 2 7/8	4.62
G1807	12	Syn.	5	1 1/2 x 2 7/8	5.13
1808	6	Syn.	4	1 1/2 x 2 7/8	4.62
1813	6	Syn.	3	1 1/2 x 2 7/8	4.62
1852	6	Syn.	11	1 1/2 x 2 7/8	5.82



# Semiconductor Data

## SILICON RECTIFIER SELECTOR

PIV	150 ma @ 50° C			750 ma @ 75° C	1 amp @ 25° C	3 amp @ 25° C	15 amp @ 150° C	18 amp @ 150° C	25 amp @ 150° C
	A	T	H	D	A	S	VS	V	V
50	A50	1N2090	1N536	D50	A50	S50	1N3208	1N3491	1N3659
100	A100	1N2091	1N537	D100	A100	S100	1N3209	1N3492	1N3660
200	1N2069A	1N2092	1N538	1N3193	1N2069	1N1124A	1N3210	1N3493	1N3661
300	A300	1N2093	1N539	D300	A300	1N1125	1N3211	1N3494	1N3662
400	1N2070A	1N2094	1N540	1N3194	1N2070	1N1126A	1N3212	1N3495	1N3663
500	A500	1N2095	1N547	D500	A500	1N1127	1N3213	V500	1N3664
600	1N2071A	1N2096	1N1096	1N3195	1N2071	1N1128A	1N3214	V600	1N3665
800	A800	T800X	—	—	A800	—	—	—	—
1000	A1000	T1000X	—	—	A1000	—	—	—	—

## SILICON RECTIFIER SELECTOR

The table to the left shows the full line of Mallory diffused junction silicon rectifiers. To select the type suited to your need, first establish the current required. Then select the peak inverse voltage to be encountered. At the intersection of these two ratings you will find the catalog number of the device needed.

## PRE-PACKAGED CIRCUITS

For many applications it is better to use a pre-packaged circuit than individual silicon rectifiers. The rectifiers used in the pre-packaged circuits are matched at the factory to deliver optimum performance. In addition, there are fewer solder connections to make in your circuit.

Three types of circuits are available: VB, Voltage Doubler; Full-wave center tap (negative or positive); and FW, Full Wave bridge. Case sizes are the same for all types. See page 47.

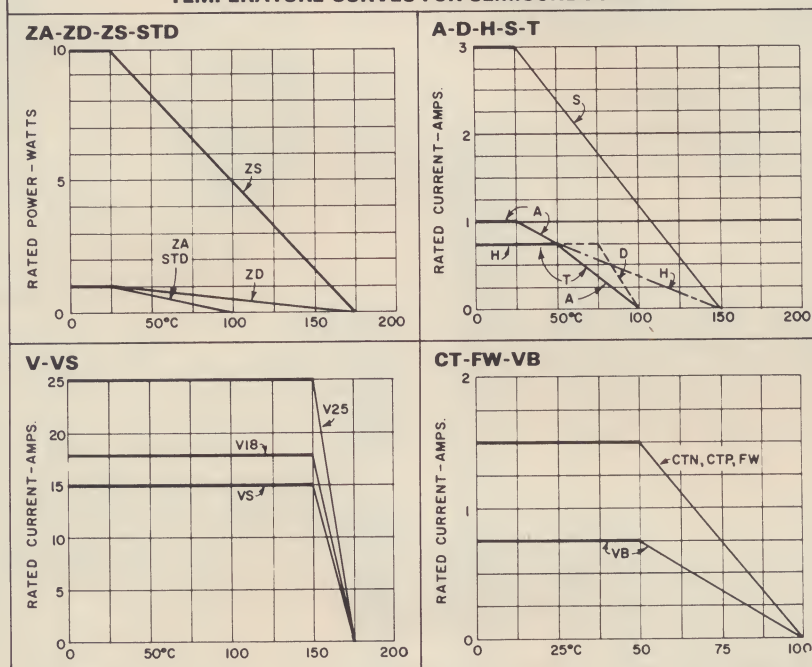
## ZENER DIODES

Mallory silicon zener diodes have diffused junctions for improved operating characteristics. Three case styles are available. The ZA series is a molded case and rated at 1 watt. The ZD series comes in an hermetically sealed flangeless case and is also rated at 1 watt. The ZS series is in a stud mount case rated at 3 watts and supplied with all mounting hardware. Tolerances are  $\pm 20\%$ ,  $\pm 10\%$  and  $\pm 5\%$ . Values range from a low of 6.8 up to 200 zener volts.

## DUAL TRIGGER DIODES

The Mallory dual trigger diode is a three-layer avalanche device having a symmetrical switching mode which fires whenever the breakover voltage is exceeded in either polarity direction. Thus, it is ideally suited to be used in conjunction with "Bi-switch" thyristors. The dual trigger may also be used to control a matched pair of silicon controlled rectifiers. Typical applications include light dimmers and other types of phase control units.

## TEMPERATURE CURVES FOR SEMICONDUCTORS

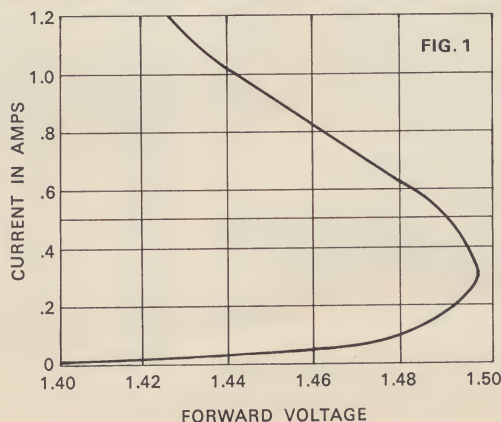


## AMP GATE DIODE

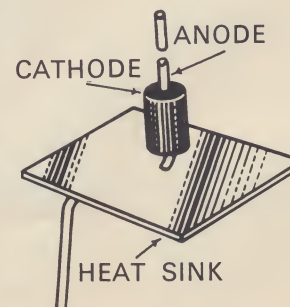
The Amp Gate Diode is a dual chip silicon P-N device that has been designed specifically for over-charge protection of nickel cadmium cells.

The AGD allows nickel cadmium cells to be fully charged in one third (1/3) the time formerly required. This has been accomplished by the unique forward characteristics of the AGD (see figure #1). The diode acts as a voltage sensitive gate to shunt the charging current around each cell as the cells reach full charge. This permits all of the cells to be brought to a fully charged state in spite of variations in capacity and state of charge of the cells and allows them to be charged at rates up to and higher than the C/1 rate.

To attain the correct forward characteristics the AGD must be mounted on a 7/8" X 3/4" X .023" copper heat sink as shown in figure 2. The diode curve bends backwards due to self-heating of the silicon junction (fig. #1). Without the use of the correct heat sink the characteristic curve in figure #1 will not be produced, consequently, the diodes will not fully protect the cells.



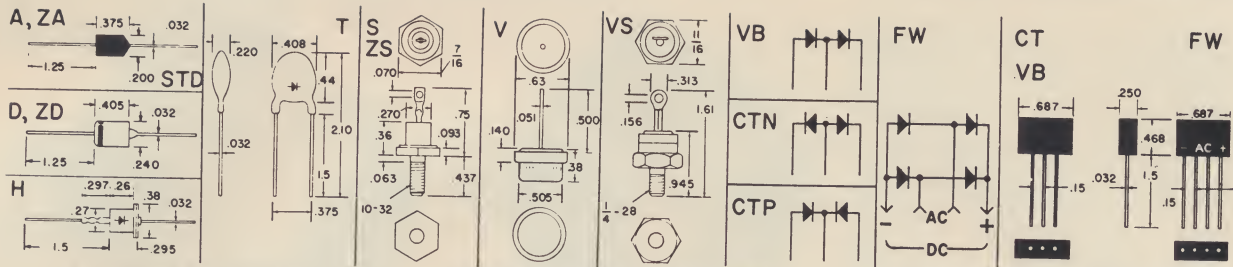
## TYPE AGD™



AGD Net Each \$1.34



# Semiconductors



## SILICON RECTIFIERS

Diffused junction. Types A and T have molded cases; all others, hermetically sealed.

Mallory No.	Type	PIV Volts	Amps	*	Net Each
A50	A	50	.75	1	\$0.40
A100	A	100	.75	1	.45
1N2069A	A	200	.75	1	.50
A300	A	300	.75	1	.60
1N2070A	A	400	.75	1	.67
A500	A	500	.75	1	.72
1N2071A	A	600	.75	1	.77
A800	A	800	.75	1	1.20
A1000	A	1000	.75	1	2.00
1N2090	T	50	.75	1	.46
1N2091	T	100	.75	1	.48
1N2092	T	200	.75	1	.52
1N2093	T	300	.75	1	.56
1N2094	T	400	.75	1	.58
1N2095	T	500	.75	1	.63
1N2096	T	600	.75	1	.66
T800X	T	800	.75	1	1.50
T1000X	T	1000	.75	1	2.18
1N536	H	50	.75	2	.67
1N537	H	100	.75	2	.74
1N538	H	200	.75	2	.78
1N539	H	300	.75	2	.84
1N540	H	400	.75	2	.88
1N1095	H	500	.75	2	.95
1N547	H	600	.75	2	1.10
1N1096	H	600	.75	2	1.10
1N3193	D	200	.75	3	.69
1N3194	D	400	.75	3	.80
1N3195	D	600	.75	3	.93
A50	A	50	1	4	.40
A100	A	100	1	4	.45
1N2069A	A	200	1	4	.50
A300	A	300	1	4	.60
1N2070A	A	400	1	4	.67
A500	A	500	1	4	.72
1N2071A	A	600	1	4	.77
A800	A	800	1	4	1.20
A1000	A	1000	1	4	2.00
S50†	S	50	3	5	1.60
S100†	S	100	3	5	1.67
1N1124A†	S	200	3	5	1.82
1N1125†	S	300	3	5	2.66
1N1126A†	S	400	3	5	3.15
1N1127†	S	500	3	5	3.88
1N1128A†	S	600	3	5	4.45
1N3208†	VS	50	15	6	1.15
1N3209†	VS	100	15	6	1.30
1N3210†	VS	200	15	6	1.70
1N3211†	VS	300	15	6	2.00
1N3212†	VS	400	15	6	2.48
1N3213†	VS	500	15	6	2.86
1N3214†	VS	600	15	6	3.56
1N3491†	V	50	18	7	.63
1N3492†	V	100	18	7	.68
1N3493†	V	200	18	7	1.03
1N3494†	V	300	18	7	1.31
1N3495†	V	400	18	7	1.65
V500†	V	500	18	7	1.88
V600†	V	600	18	7	1.98
1N3659†	V	50	25	8	1.26
1N3660†	V	100	25	8	1.36
1N3661†	V	200	25	8	2.06
1N3662†	V	300	25	8	2.62
1N3663†	V	400	25	8	3.30
1N3664†	V	500	25	8	3.76
1N3665†	V	600	25	8	3.96

\*Rated: 1—15 amps peak 1-cycle surge at 50° C; max. case temp., 100° C. 2—Same, but max. case temp. 150° C. 3—35 amps peak 1-cycle surge at 75° C; max. case temp., 100° C. 4—15 amps peak 1-cycle surge at 25° C; max. case temp., 100° C. 5—Same, but max. case temp. 150° C. 6—250 amps peak 1-cycle surge at 150° C; max. case temp., 175° C. 7—Same, but 300 amps. 8—Same, but 400 amps. †Standard polarity is cathode to stud; for anode to stud, add suffix R (e.g., 1N3208R), same price. ‡Mounting hardware supplied.

## PRE-PACKAGED RECTIFIER CIRCUITS

Rated at +50° C. Max. case temp. 100° C. Ratings shown are for total circuit. Peak 1-cycle surge, 15 A. Furnished in epoxy case. Prefix Shows Use: VB, Voltage Doubler; CT, Full Wave, Center Tap (Neg. or Pos.); FW, Full Wave bridge.

Mallory No.	Type	PIV Volts	Amps	Net Each
VB50	VB	50	.75	\$0.78
VB100	VB	100	.75	.86
VB200	VB	200	.75	.96
VB300	VB	300	.75	1.00
VB400	VB	400	.75	1.06
VB500	VB	500	.75	1.20
VB600	VB	600	.75	1.34
CT(*)50	CT*	50	1.5	.78
CT(*)100	CT*	100	1.5	.86
CT(*)200	CT*	200	1.5	.96
CT(*)300	CT*	300	1.5	1.00
CT(*)400	CT*	400	1.5	1.06
CT(*)500	CT*	500	1.5	1.20
CT(*)600	CT*	600	1.5	1.34
FW50	FW	50	1.5	1.53
FW100	FW	100	1.5	1.63
FW200	FW	200	1.5	1.70
FW300	FW	300	1.5	1.92
FW400	FW	400	1.5	1.95
FW500	FW	500	1.5	2.03
FW600	FW	600	1.5	2.22
FW800	FW	800	1.5	3.50
FW1000	FW	1000	1.5	3.93

\*Insert N for negative center tap; P, for positive center tap (e.g., CTN50).

## SILICON ZENER DIODES

Diffused junction type in three case styles and two wattages. All types rated at 25° C. Type ZA: "Cold case" design. Type ZS: Hermetically sealed and furnished with HD04 mounting hardware. Type ZD: Hermetically sealed. Tolerance: All types shown are ±20%. Add suffix A for ±10%; B for ±5%.

### STOCK 1-WATT TYPES

Nom. Zener Volts	I <sub>ZT</sub> Test mA	Z <sub>ZT</sub> at I <sub>ZT</sub> Ohms	Mallory Number
6.8	37	3.5	ZA6.8 1N3016
7.5	34	4.0	ZA7.5 1N3017
8.2	31	4.5	ZA8.2 1N3018
9.1	28	5.0	ZA9.1 1N3019
10	25	7	ZA10 1N3020
11	23	8	ZA11 1N3021
12	21	9	ZA12 1N3022
13	19	10	ZA13 1N3023
15	17	14	ZA15 1N3024
16	15.5	16	ZA16 1N3025
18	14	20	ZA18 1N3026
20	12.5	22	ZA20 1N3027
22	11.5	23	ZA22 1N3028
24	10.5	25	ZA24 1N3029
27	9.5	35	ZA27 1N3030
30	8.5	40	ZA30 1N3031
33	7.5	45	ZA33 1N3032
36	7.0	50	ZA36 1N3033
39	6.5	60	ZA39 1N3034
43	6.0	70	ZA43 1N3035
47	5.5	80	ZA47 1N3036
51	5.0	95	ZA51 1N3037
56	4.5	110	ZA56 1N3038
62	4.0	125	ZA62 1N3039
68	3.7	150	ZA68 1N3040
75	3.3	175	ZA75 1N3041
82	3.1	200	ZA82 1N3042
91	2.8	250	ZA91 1N3043
100	2.5	350	ZA100 1N3044
110	2.3	450	ZA110 1N3045
120	2.0	550	ZA120 1N3046
130	1.9	700	ZA130 1N3047
150	1.7	1000	ZA150 1N3048
160	1.6	1100	ZA160 1N3049
180	1.4	1200	ZA180 1N3050
200	1.2	1500	ZA200 1N3051

## ZENER DIODES (CONT'D) STOCK 10-WATT TYPE ZS

Nom. Zener Volts	I <sub>ZT</sub> Test mA	Z <sub>ZT</sub> at I <sub>ZT</sub> Ohms	Mallory Number ZS
6.8	370	1.2	1N2970
7.5	340	1.3	1N2971
8.2	310	1.5	1N2972
9.1	280	2	1N2973
10	250	3	1N2974
11	230	3	1N2975
12	210	3	1N2976
13	190	3	1N2977
15	170	3	1N2979
16	155	4	1N2980
18	140	4	1N2982
20	125	4	1N2984
22	115	5	1N2985
24	105	5	1N2986
27	95	7	1N2988
30	85	8	1N2989
33	75	9	1N2990
36	70	10	1N2991
39	65	11	1N2992
43	60	12	1N2993
47	55	14	1N2995
51	50	15	1N2997
56	45	16	1N2999
62	40	17	1N3000
68	37	18	1N3001
75	33	22	1N3002
82	31	25	1N3003
91	28	35	1N3004
100	25	40	1N3005
110	23	55	1N3007
120	20	75	1N3008
130	19	100	1N3009
150	17	175	1N3011
160	16	200	1N3012
180	14	260	1N3014
200	12	300	1N3015

### ZENER DIODE NET PRICES

Nom. Zener Volts	Tol. (Suffix)	Mallory Type, Net Each
6.8	±20%	\$0.85
10	±10% (A)	1.00
100	±5% (B)	1.40
110	±20%	.95
to	±10% (A)	1.11
200	±5% (B)	1.55
		1.42
		1.89
		2.76
		3.59

## DUAL TRIGGER DIODE

Symmetrical three-layer device used to control a "Bi-switch" or SCR. Primary use is in dimmer circuits or motor control. Rated at 1 watt at 50° C. Pulse current, 20 μsec, 0.5% duty cycle, 1 amp. Breakover voltage, 32 V, ±10%. Breakover current, 150 μA max. Breakover at 2 mA, 5 V min. Symmetry within 5%. Cold case design (Fig. A, above). Ask for Bulletin 9-405 for light dimmer use.

Mallory STD32A—Net Each.....\$1.07

## SEMICONDUCTOR HARDWARE



Mallory No.	Description	Net Each
HD04	Complete DO4 kit	\$0.08
HD04A	Mica washer (2 reqd.)	.007
HD04B	Brass washer	.01
HD04C	Teflon® washer	.01
HD04D	Solder lug	.012
HD04E	#10-32 locknut	.015
HD05	Complete DO5 kit	.14
HD05A	Mica washer	.012
HD05B	Brass washer	.012
HD05C	Teflon washer	.05
HD05D	Solder lug	.04
HD05E	¼"-28 locknut	.018

®Registered DuPont trademark.



# SONALERT® Electronic Signals

The Sonalert electronic signal is a major advance in the audible signal warning field. The signal produces a penetrating sound of either 2800 Hz or 4500 Hz by utilizing the piezoelectric principle. All circuitry is solid state for maximum efficiency, lowest current requirement and high reliability.

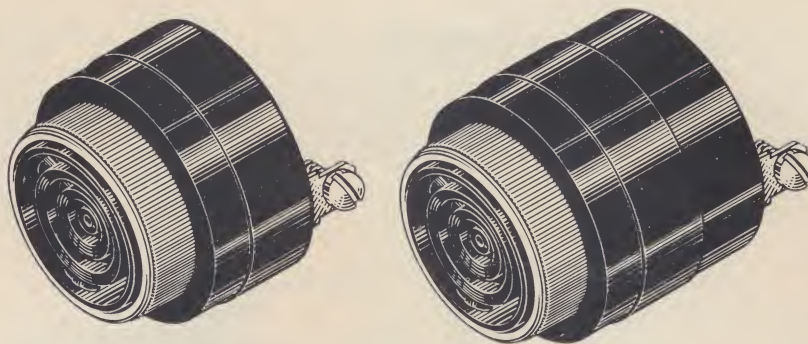
Operating principles are quite simple. A silicon transistor oscillator drives a piezoelectric transducer to produce the desired output tone. The physical characteristics of the transducer determines the output frequency; and, this cannot be altered by external means. Output intensity is directly proportional to input voltage and ranges from 68 dB at 6 VDC to 80 dB at 28 VDC.

There are several outstanding advantages which the Sonalert has over conventional warning devices. It draws only 14 mA max. (less than an indicator lamp), there are no mechanical points to arc and require maintenance, and there is no RF field generated. The Sonalert will operate in ambient temperatures from -40° C to +85° C; and, because of its solid state design, it is reliable, with a life expectancy of 10,000 hours.

These advantages result in the Sonalert being used in almost every imaginable application. It has been used in computer systems in which stray RF could cause false readouts. It has been used in portable mine detectors in which ruggedness, minimum current and maximum reliability are prime considerations. Yes, it is also being used in aerospace projects requiring maximum efficiency and reliability. Sonalert is also being used in highly volatile atmospheres such as enclosed motor compartments where occasionally a high density gas vapor could destroy the entire craft if a spark occurred.

There are no detailed military specifications which cover the Sonalert per se. However, they are widely used in military and aerospace applications. A listing of applicable MIL specs is presented in Bulletin 9-398 and is available from your Mallory distributor.

A 48-page booklet of Sonalert uses is available on request. It covers a host of uses ranging from auto through boat and home, as well as industrial and laboratory functions. This booklet is available at your local Mallory distributor; or, by writing to Mallory. Ask for Form 9-406.



## STANDARD SONALERT SIGNALS STOCKED BY FRANCHISED MALLORY DISTRIBUTORS

Catalog Number*	Sound Freq., Hz*	Operating Voltage VDC	VAC	Oper. Cur., mA	Sound Intensity, dB	Volume, In.	Wt., Oz.	Oper. Temp., °F	Lgth., In.	Net Each
SC628	2800	6-28	...	3-14	68-80	2.9	1.25	-40+120	.781	\$5.50
SC628H	4500	6-28	...	3-14	68-80	2.9	1.25	-40+120	.781	6.35
SC628P	2800†	6-28	...	3-14	68-80†	4	2	-40+120	1.38	9.95
SC628A	2800	6-28	6-28	3-14	68-80	4	2	-40+120	1.38	8.75
SC110	2800	86	110	14	80	4	2	-40+120	1.38	8.75

## AVAILABLE ON SPECIAL ORDER FROM MALLORY DISTRIBUTORS

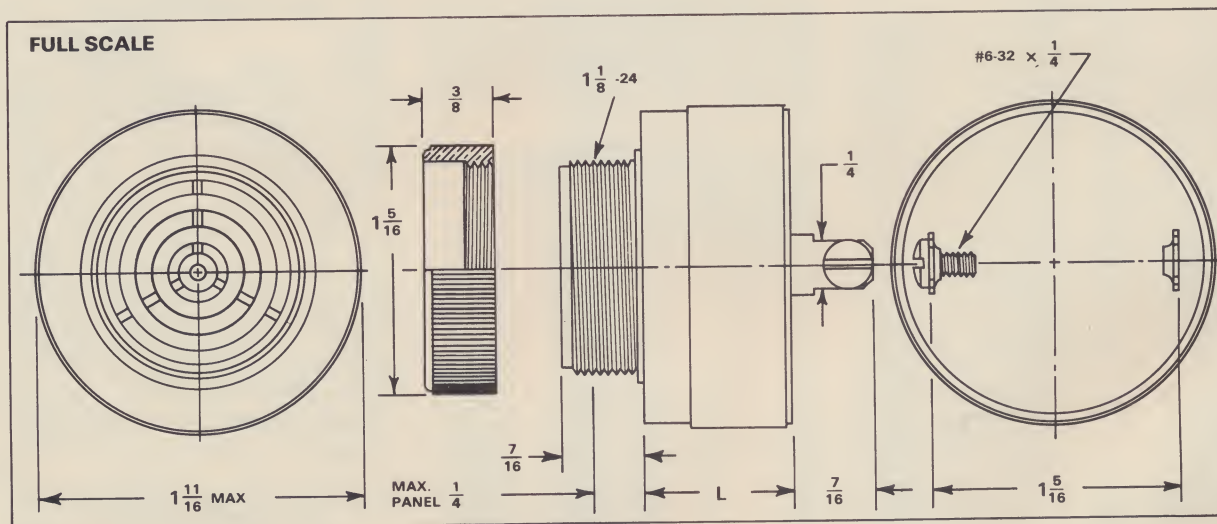
SC628HP	4500†	6-28	...	3-14	68-80†	4	2	-40+120	1.38	\$10.80
SC628AH	4500	6-28	6-28	3-14	68-80	4	2	-40+120	1.38	9.65
SC628AP	2800†	6-28	6-28	3-14	68-80†	5.1	2.75	-40+120	1.94	13.20
SC628AHP	4500†	6-28	6-28	3-14	68-80†	5.1	2.75	-40+120	1.94	14.10
SC110H	4500	86	110	14	80	4	2	-40+120	1.38	9.65
SC110P	2800†	86	110	14	80†	5.1	2.75	-40+120	1.94	13.20
SC110HP	4500†	86	110	14	80†	5.1	2.75	-40+120	1.94	14.10
SC628W†	2800†	12-28	...	3-14	68-80†	4	2	-40+120	1.38	10.85

\*Tolerance: ±300 Hz for 2800 Hz models; ±500 Hz for 4500 Hz models.

†Pulsating 3 to 5 Hz.

‡Warbler unit; use with SC628 or SC628H.

\*Suffix indicates: None=2800 Hz; H=4500 Hz; A=AC current model; P=Pulsating model; W=Warbling model. All come complete with special silicon transistors and nylon cases.





## AVAILABLE PRODUCT LITERATURE

Literature covering a variety of Mallory products is available from your Franchised Mallory Distributor or by writing to Mallory Distributor Products Company, P.O. Box 1558, Indianapolis, Indiana 46206. A synopsis of these bulletins and catalogs is given below. Please order by form number.

- Form 9-129 . . .** Electrolytic Capacitor Replacement Guide—Prepared to help the electronic technician locate suitable replacements from among thousands of types encountered. 28 pages
- Form 9-177 . . .** AC Motor Capacitor Catalog—Complete listing of AC types, guide for proper capacitor selection, testing information and cross reference guide. 16 pages
- Form 9-282 . . .** 85°C Computer Grade Capacitors—High reliability aluminum electrolytic capacitor, ratings, sizes. 2 pages
- Form 9-409 . . .** 65° Computer Grade Capacitors—High reliability aluminum electrolytic capacitor, sizes, ratings. 2 pages
- Form 9-372 . . .** MTA Molded Tubular Electrolytic Capacitors—Specifications and standard ratings. 2 pages
- Form 9-370 . . .** Polystyrene Capacitors—Ratings, specifications. 2 pages
- Form 9-357 . . .** MOL Metal Oxide Film Resistors—Specifications, sizes, ratings. 2 pages
- Form 9-373 . . .** Subminiature Carbon Trimmer Controls—MTC specifications, ratings, sizes. 2 pages
- Form 9-286 . . .** Subminiature 5-Watt Controls—Wire-wound Control, Linear Taper (non-linear taper on special order). 2 pages
- Form 9-354 . . .** Industrial Sequence Timers—Explanations of types and sequence times, dimensions, specifications. 2 pages
- Form 9-398 . . .** SONALERT Electronic Audible Signal—Specifications and standard types. 2 pages
- Form 9-406 . . .** SONALERT Signal Applications—Practical uses and circuits. 48 pages





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